

6	27364	92836	09428	01208	14982	30898	32704	31277	
86	40932	70987	32123	49817	26346	81287	65491	87364	8
721	75654	55656	12737	72727	72727	91918	63473	67867	7
723	87629	37677	32612	53498	71296	28756	18276	98716	87
269	76329	74698	76857	98670	27601	56701	57601	73648	1
791	87364	87265	96710	27630	12673	84769	28743	98127	7
8	63298	75698	27465	87326	49876	28376	81273	98615	
7	87432	74328	78674	29867	32867	67867	86786	43286	87
17	68768	68763	34234	34238	68768	62342	48273	48768	2
26	98432	32432	86743	43286	43286	43286	43286	43286	43
243	86743	86743	39867	32867	86743	43286	43286	43243	86
8	86743	86743	86743	86743	86743	86743	86743	86743	8
99	98798	98754	98754	98754	98754	29867	67543	67986	8
6	87698	69876	87698	69876	87612	12341	34867	86798	6
7	43298	65656	56756	56123	32143	14321	32143	14321	31
7	58767	58767	76587	58765	76587	58765	76587	58756	7

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #258, March 2019

Editor: Ary Boender email: udxf@udxf.nl
Numbers & Oddities <http://www.numbersoddities.nl>

"Numbers & Oddities" a.k.a. the "Spooks Newsletter" is a newsletter for the members of the Utility DXers Forum (UDXF), the Spooks mailing list, HF Underground and everyone else who is interested in Numbers Stations.

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.



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FOREWORD

Welcome to yet another edition of Numbers & Oddities. As usual you will find a lot of transcripts, Russian and American emergency messages and logs. M23 popped up with a daily schedule and E25 is also still alive. Alpha analysed some F01 messages. The result can be found in the Appendix. M01a was active with training traffic. Danix logged a number of M42 stations and the Proyom team also discovered Russian MFSK-16 scheduled. Great job guys !

Enjoy and don't forget to send us your logs.

VOICE STATIONS

E06

19325 kHz, 07-03, 0700 UTC

16230/19325 kHz, 08-03, 0600/0700 UTC

864 297 53

06371 86966 41873 93781 09526 40462 82618 59416 41667 10161

93556 13720 48256 03524 87744 47987 68556 11468 67788 90362

93851 18223 68880 61996 30845 37070 31228 07947 99922 20392

44067 85991 22958 17483 28446 49290 80367 78540 50959 83825

42082 28298 85636 86574 02140 57713 66156 95333 71569 07171

95578 06154 96137

297 53 00000

5186 kHz, 07-03, 2030 UTC

891 472 52

12265 10965 47839 38654 84677 93453 62217 84393 04673 97564

01824 75643 84221 95647 92112 94543 76577 43435 47322 84232

95674 87344 57438 45763 49325 57438 92190 96785 21244 05674

01765 76354 83645 21234 97564 82133 07564 83234 75312 71211

05674 65374 67321 94884 23483 82521 41212 57333 85331 53234

05124 95732

472 52 00000

Windows shut down sound

5197 kHz, 08-03, 2130 UTC

634 967 42

45678 68475 69385 39620 49385 58736 37233 65864 28376 29395

48638 34693 23852 23468 34679 34689 32929 23658 24368 26722

67564 69477 23725 24369 90453 78347 36125 21632 13258 23658

65824 67893 79435 83478 32496 23582 29693 23682 23692 23648

23936 26389

967 42 0000

Windows shut down sound

16230 kHz, 21-03, 0600 UTC

16230/19325 kHz, 22-03, 0600/0700 UTC

864 129 50

80767 10446 38826 84013 68127 13184 54004 26235 05323 01766

70762 83463 79643 19246 12450 87851 03881 64713 25172 98213

88587 48339 21773 63717 79285 71132 49365 05249 82035 46590

66321 44140 25844 06425 39683 32953 35304 57570 98910 67992

11943 82633 06926 88254 47688 01003 34371 90484 18911 32779

129 50 00000

5186 kHz, 21-03, 2030 UTC

891 149 52

12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732

149 52 00000

Windows shut down sound

5179 kHz, 22-03, 2130 UTC

634 149 52

12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732

149 52 00000

E07**10651/9151/7651 kHz, 04-03/06-03/11-03/12-03, 2000/2020/2040 UTC**

616 827 142 827 142

65226 59083 59225 28477 68875 34641 37787 85276 20258 33594
68849 62983 97194 12438 54507 43107 21671 06134 52856 17478
59456 04020 86217 53180 21363 42332 92618 42584 17796 89322
94747 71440 85503 51546 62033 91892 83865 13165 07551 37237
22124 53278 68197 45494 75194 30302 33507 61430 15516 87027
21360 04876 43489 18711 99410 29960 40007 79526 21216 30780
73907 76867 15185 70550 64633 93148 69716 99678 87875 00522
14937 91338 85183 57109 76767 85015 94333 40643 41367 61086
81356 01339 49241 91479 31802 35446 02485 77957 79909 71662
27802 35886 02159 44651 43726 35362 85110 19522 93895 63049
18069 82769 94970 56280 96072 14242 02549 99464 13193 39583
78566 42073 50143 26511 68548 07474 52209 03215 32479 09091
91453 33242 79205 38697 13848 75863 40790 86264 14374 69264
28157 21014 72858 75819 55001 89962 49732 25814 73920 58716
08532 17575 000 000

14942/16142 kHz, 05-03/08-03, 0700/0720 UTC

310 310 310 1 4489 74 4489 74

93544 82814 38544 37362 69610 20625 11692 52037 65375 65099
97827 25160 71169 97956 17543 36950 94039 32667 99318 87570
19125 23862 63837 15182 85454 07481 31158 35007 30997 91104
48197 36332 87090 83058 25405 81817 29071 07117 11772 56825
61567 17731 54375 32580 53848 24433 79338 48758 80816 14800
91592 32684 94346 53266 47322 58322 96124 63814 29529 42254
02001 94305 43971 02493 88348 53183 57877 78949 87682 05826
06197 41120 84370 11756 000 000

10321/9121/7821 kHz, 06-03/10-03/13-03, 1800/1831/1902 UTC

318 318 318 1 598 239 598 239
97316 15318 59503 06945 88604 68165 15223 12721 47287 93822
38529 19913 97004 11907 51522 23260 32616 80187 54029 53942
24413 41919 21126 94726 12701 37801 25057 20684 52790 07603
13648 32760 92475 81633 34699 91391 79838 40198 48388 54005
52715 29303 79781 48236 80787 52868 82855 74860 50400 81082
74999 42095 26978 31341 59834 75653 52724 61737 64940 40389
07561 05726 53515 68054 00438 64951 73412 18995 87417 48443
30820 03455 05889 86174 79005 53799 92460 17803 56177 69248
67635 47564 08925 45607 97001 51663 68831 53540 68626 03183
67280 18928 96612 65117 64062 42668 23614 04609 92788 40609
30982 33884 13761 51638 89873 80665 31469 78598 09421 55597
89887 48514 13869 51013 78342 52066 82057 82163 04917 51499
16593 20236 96603 94283 22281 21758 71373 59216 72220 80244
58601 22279 31316 28740 78413 28625 38428 36973 79411 54225
06267 50103 11001 47449 90388 02867 33326 28219 07125 49787
13173 80918 98356 65535 21434 22583 29181 21702 84938 51583
23684 54681 09259 25888 81780 41866 56854 13527 50915 53238
94541 84009 19163 39554 58646 56849 00700 70147 11749 51276
64692 44843 88805 50398 29856 46294 73974 61499 72533 49314
77438 04490 83557 42393 92639 66611 30783 64901 82234 88790
25640 94556 81642 75937 28071 48742 82333 20730 55655 10514
06834 59533 11413 91550 77391 95429 69859 68767 99712 03152
58045 81895 01019 87697 21528 21158 78137 37040 80524 45366
22202 88946 15821 25938 48474 70570 83113 79802 36069 000 000

19118/17418/15918 kHz, 12-03/15-03, 1100/1120//140 UTC

149 149 149 1 487 102 487 102
70382 99152 94393 61956 57525 36999 56393 93112 70738 40646
30356 13168 09598 63377 61972 32445 40609 47757 00724 68379
21364 14552 80100 91735 16304 74691 77330 69004 19248 00953
47241 98998 15527 20055 28901 76296 61887 24919 86017 70035
05297 76217 97641 42605 04891 17503 30879 83803 89816 62716
68153 23403 67596 46281 21776 52353 00657 95761 94081 91314
21530 78980 42980 69583 18107 61396 77631 35905 26634 99231
61200 52611 96118 82548 49290 89248 33069 81296 98939 47846
83103 37777 01338 44069 07920 18470 99598 83865 37747 93563
47862 24347 92191 62618 87692 68375 80561 06135 56549 07729
50396 13166 000 000

10112/11112/12112 kHz, 14-03/17-03/21-03/28-03/31-03, 1400/1420/1440 UTC

10112/11112/12112 kHz, 16-03/17-03/30-03/31-03, 0700/0720/0740 UTC

111 111 111 1 642 93 642 93
67101 74210 05323 89137 24695 86066 59748 37276 55714 43965
47433 54074 65124 10640 01506 31683 47372 16155 34018 94412
47168 18111 43799 51667 84914 89987 68294 11570 72004 11111
38584 78755 84550 20350 75028 81275 22484 65931 93826 32498
70557 03795 73279 47605 97294 27538 76489 00561 91862 91528
59804 68238 23807 26803 43507 38449 46781 73136 12524 63757
22282 90474 31537 96030 01031 62482 59179 00705 25185 13982
70590 47324 23844 02170 35799 60627 52414 68379 67362 51402
15570 42203 57806 22762 40278 51596 50030 27465 64243 01816
29766 27145 27645 000 000

14942/16142/18042 kHz, 19-03/22-03/29-03, 0700/0720/0740 UTC

310 310 310 1 9766 56 9766 56
68766 99855 79093 23427 87557 87819 00692 16662 24170 89020
47552 10934 38870 49652 04924 34457 12275 45812 55333 91769
55812 15287 45884 92286 57744 79806 71351 53817 15166 78951
29317 43134 37131 12562 92830 84408 31182 44908 79295 15213
45148 06706 44678 53511 90426 30044 20225 34282 51704 60078
59895 71345 66193 38945 28122 29398 000 000

16284/14854/13384 kHz, 21-03/23-03, 1410/1430/1450 UTC

328 328 328 1 4000 57 4000 57
78900 93719 85939 95077 46103 01332 17847 29128 08424 80069
35005 05042 66228 59183 94788 96508 87518 51803 72051 13148
98460 82474 88123 06797 49155 45847 84779 81441 99353 20587
74377 14182 54314 46377 38634 85932 11582 57196 12750 01855
46774 59864 83033 72321 68657 14668 48316 15266 15822 82756
66191 36818 23550 15459 16737 17986 97841 000 000

19118/17418/15918 kHz, 26-03/29-03, 1100/1120//140 UTC

149 149 149 1 9987 143 9987 143
60645 49583 17870 83251 29810 19058 63914 80946 02346 32988
89876 05308 15465 02237 55734 13511 04292 71779 12138 81653
56098 38948 93124 79634 47933 78936 81541 57303 48879 91367
72250 59465 00490 57084 61470 34475 21477 99138 38845 52421
58700 10115 16986 52142 26969 24221 59309 64233 47501 44650
78911 22942 51041 20998 72754 93140 05966 28443 59932 09003
82354 24556 69399 58063 85481 37713 77207 44746 33791 28941
32860 10625 14372 27424 02324 00661 94083 18260 70327 23065
13666 28201 33063 82110 42484 95102 70490 69485 93770 96019
13818 02554 09243 05733 58114 10422 75294 14931 74852 48850
92814 90877 42603 33713 92611 02762 06242 70653 53419 77256
27942 27042 80420 98158 84883 96415 75554 58476 97077 02538
12817 40878 41502 63097 93174 61714 21937 61676 74224 91686
10087 75348 88932 03356 88779 55208 75967 27757 23373 26037
91090 74771 31767 000 000

10321/9121/7821 kHz, 27-03/31-03, 1800/1820/1840 UTC

318 318 318 1 5952 69 5952 69
90363 04914 70442 85904 33685 14700 68356 34052 08144 17321
43895 26452 59662 97685 85517 09835 12345 77975 23096 98236
64014 32540 06488 39312 13418 82773 84219 55222 11729 31947
64886 20267 94016 34562 36504 43497 87522 27917 17139 02533
38116 72521 39646 33341 57362 72063 31515 54071 57085 86767
34946 73252 01743 23573 78990 01301 58087 37098 00705 21864
54660 11949 77950 28971 85890 54470 22695 24110 45482 000 000

E07a**11473/10173/9373 kHz, 01-03, 1610/1630/1650 UTC**

413 413 413 1 35013 540 71 540 71
43712 09388 94161 20055 13516 08770 95848 39244 02872 44748
21825 20990 41458 62224 09432 21925 28432 19888 10815 19648
34058 31996 91501 87086 46108 66181 88457 66535 40254 24098
34462 54932 19418 58537 31663 27920 50180 88177 27566 73732
99090 25028 67575 20738 54384 53705 22700 06449 33592 53961
67324 16184 90707 32287 37020 07825 34800 56234 92850 30865
96191 67607 83354 33308 99430 43314 05066 72081 22651 07301
75362 000 000

11133/12133/13433 kHz, 02-03, 0900/0920/0940 UTC

114 114 114 1 35013 540 71 540 71
43712 09388 94161 20055 13516 08770 95848 39244 02872 44748
21825 20990 41458 62224 09432 21925 28432 19888 10815 19648
34058 31996 91501 87086 46108 66181 88457 66535 40254 24098
34462 54932 19418 58537 31663 27920 50180 88177 27566 73732
99090 25028 67575 20738 54384 53705 22700 06449 33592 53961
67324 16184 90707 32287 37020 07825 34800 56234 92850 30865
96191 67607 83354 33308 99430 43314 05066 72081 22651 07301
75362 000 000

E11a

Note: Various distorted transmissions. Same problem for S11a.

8180 kHz, 04-03, 0900 USB

531/36 Attention
94653 11988 76021 40080 04940 10117 46584 89996 60852 95454
03717 70084 49460 70546 25330 78261 81350 78095 05068 45950
35223 55157 51049 39676 29147 52459 07120 53576 38950 23246
08831 69678 45401 53379 33870 91715
Attention (message repeated) Out

9963 kHz, 05-03, 0715 UTC

631/35 Attention
90895 80876 45827 33800 40486 45683 13589 46499 16608 74361
37635 96374 28034 64676 01169 34207 14342 34525 87505 72605
49087 91470 49184 67312 09126 04065 73747 32451 11094 99060
78123 98171 55270 14768 01987
Attention (message repeated) Out

6397 kHz, 05-03/10-03, 1605 UTC

233/35 Attention
60696 37011 41005 06518 97378 04362 37346 60897 88498 49317
95182 57349 67022 44257 78605 64117 68808 77101 41012 63835
20019 99707 34069 71698 91269 98668 99405 94578 42844 08754
70610 84766 19155 24792 59796
Attention (message repeated) Out

8180 kHz, 06-03, 0900 UTC

530/39 Attention
14426 06378 00008 06009 46979 09311 58220 21093 00467 90982
70912 16990 25453 89257 65335 26233 31935 91338 79719 12759
93157 40962 11534 21906 52737 18067 22408 39757 94728 14667
01244 44559 33321 16343 31634 42330 26463 11037 88302
Attention (message repeated) Out

6807 kHz, 06-03/07-03, 0930 UTC

273/39 Attention
97280 45516 04239 08801 23772 32547 88898 58736 22398 69756
84657 08575 86446 93395 66611 02887 80715 44607 28396 48360
36075 00715 55620 96926 92900 25990 81554 82521 50974 51217
67659 78127 71286 75351 22379 21760 49990 87150 92000
Attention (message repeated) Out

7317 kHz, 11-03/13-03, 1045 UTC

690/28 Attention

73486 22834 14546 83470 05229 29630 75921 39763 48411 10778
41529 07865 16695 62752 38238 83451 17800 25840 78128 06587
67247 82548 43790 22655 78732 72463 93743 24538

Attention (message repeated) Out

8180 kHz, 12-03/15-03, 0700 UTC

577/39 Attention

95641 91686 98756 17649 42503 36112 03549 63452 56033 63741
41467 29528 34006 41303 76252 35974 43872 85766 43379 50846
98958 69236 23602 75982 44501 24926 91406 65247 38228 52136
97886 33312 63756 21878 90619 03080 57612 09913 14631

Attention (message repeated) Out

6923 kHz, 12-03, 1205 UTC

463/36 Attention

90763 44484 35860 98410 12442 79765 51587 86647 41612 88387
56117 51634 69188 00818 47513 50162 35190 43111 30508 69018
39635 31614 16601 25190 44153 50762 37069 04669 53966 50964
65359 93541 01199 71026 09025 60359

Attention (message repeated) Out

13046 kHz, 12-03/16-03, 1345 UTC

911/37 Attention

20105 40388 56718 61490 64788 85180 01455 48402 68022 23758
11845 38420 38003 30192 16716 66558 29949 02440 43349 30678
69717 00335 31879 80014 91388 34999 93335 74048 02037 94008
78186 06704 17212 48550 16308 93699 01137

Attention (message repeated) Out

12153 kHz, 13-03, 0640 UTC

949/22 Attention

35289 84726 32242 53551 61884 08173 26520 27686 14635 53454
35310 82352 49368 67962 27181 03097 78043 76353 35561 23901
23349 43884

Attention (message repeated) Out

17410 kHz, 13-03/15-03, 0745 UTC

343/31 Attention

37364 10720 02135 16149 53493 96385 09402 50296 90024 64233
65363 62589 54949 52102 37930 40588 19561 83526 40155 83523
00442 19913 10018 27912 77625 04034 50790 12520 82089 30645
17668

Attention (message repeated) Out

5371 kHz, 16-03/17-03, 0805 UTC

310/33 Attention

86873 01994 66580 32884 07945 82632 13977 56890 47663 91892
15403 20118 05138 77205 06245 87972 67129 47832 53311 10931
36053 66399 31444 19320 46938 57302 39880 07718 82736 39401
52909 46383 78304

Attention (message repeated) Out

4505 kHz, 16-03/17-03, 1930 UTC

365/36 Attention

08373 62376 35343 51136 94736 32613 58588 62942 05762 68829
00159 38077 02045 06231 54391 35410 79371 73751 38220 36957
98927 24155 99832 56363 54601 21508 00280 43070 54673 17028
99577 62674 72094 44180 34334 73030

Attention (message repeated) Out

5371 kHz, 18-03, 0450 UTC

7864 kHz, 21-03, 1730 UTC

418/31 Attention

17839 73438 39159 06568 35372 39041 38354 01294 80010 96611
81284 77689 39774 65933 94976 65686 69107 78012 22421 89080
70420 14836 02383 08406 08881 93553 46952 84825 68863 61663
58389

Attention (message repeated) Out

5941 kHz, 18-03/21-03, 0820 UTC

439/40 Attention

23562 55953 28306 98359 17895 57296 13191 51644 33127 37423
28215 05753 65008 37652 81455 17078 04417 31843 64378 93377
76315 20079 66762 68825 81311 22076 12597 20268 26810 35690
97570 21587 45032 89417 02019 89425 71541 80288 49620 03779

Attention (message repeated) Out

20286 kHz, 11-03/22-03, 1225 UTC

522/34 Attention

38268 12750 31871 83311 20965 59037 56722 35056 53781 39870
10366 08385 10945 99176 85892 13366 73486 54328 71183 00338
85229 83630 17610 44140 54230 02638 62787 70703 73075 51862
62609 30917 42372 14310

Attention (message repeated) Out

7317 kHz, 18-03/21-03, 1900 UTC

641/33 Attention

33487 29533 34762 50158 65180 04889 65801 57407 12767 10784
46535 42659 00968 54239 96058 23532 03405 88099 93041 53405
83367 61240 25667 35957 71935 88573 19534 19768 12143 68394
78791 74947 71217

Attention (message repeated) Out

10800 kHz, 19-03, 0645 UTC

514/32 Attention

32079 10534 87207 52140 71369 02509 92720 34396 36683 40132
86615 70422 56912 13474 55360 10835 73645 72190 52466 88277
86318 19957 65635 39369 76201 44148 01308 58294 30465 56017
08591 67245

Attention (message repeated) Out

6940 kHz, 20-03/21-03, 0930 UTC

273/39 Attention

56943 94867 65521 31843 43938 18292 97393 69452 20015 94570
60519 25067 77364 20970 77348 97101 46839 99983 79711 42357
15860 70798 21040 38554 85824 47791 71709 12294 39284 53782
92874 72970 45496 06677 07566 52429 17318 70207 39868

Attention (message repeated) Out

13873 kHz, 22-03/24-03, 1650 UTC

925/37 Attention

92423 02895 87092 32184 64237 25650 32661 35248 93524 46012
01791 37486 67015 16318 57182 51410 33076 24236 61798 87597
53310 02722 77764 90152 26326 17378 81240 55412 51053 73154
87480 69838 63409 65141 81622 08364 57963

Attention (message repeated) Out

8530 kHz, 22-03/24-03, 1910 UTC

616/35 Attention

23486 31537 68138 42094 19465 90966 82641 97785 34577 95059
84111 31040 27747 79146 36509 61769 98282 52012 38480 02815
60071 65720 69199 70387 45372 70545 56269 13882 17656 71230
38038 83235 57328 54110 58737

Attention (message repeated) Out

12089 kHz, 25-03/29-03, 0600 UTC

188/30 Attention

84994 76111 56146 77927 39425 91038 73961 65580 31306 89577
24208 21723 67493 47635 33276 70556 69140 23919 89843 64066
37169 76132 72599 04667 82662 15844 53098 87401 26635 19375

Attention (message repeated) Out

10213 kHz, 25-03/28-03, 0745 UTC

267/32 Attention

32630 27426 89687 58061 33039 93415 21340 77251 08937 96468
74602 65600 65721 82556 80671 15936 67349 40304 12471 07661
77907 12429 29904 95423 39259 89807 41522 85705 81644 10013
19085 83229

Attention (message repeated) Out

10800 kHz, 26-03, 1645 UTC

335/40 Attention

01515 78571 0375 05296 07309 025 358 13196 09677 08180
18388 2915 14689 63300 43968 89722 85614 90832 48112 90224
94551 92940 23654 16056 70723 18945 80296 3234 68733 98375
03834 4187 58189 67639 12102 38729 10912 44844 04713 99776

Attention (message repeated) Out

Disappearing digits due to technical problems

10620 kHz, 26-03/28-03, 1925 UTC

557/30 Attention

59958 5417 49586 70240 03942 43741 30584 84307 07976 01856
26931 43692 5917 90490 51470 58430 79273 52383 67017 95844
53475 29147 40300 75000 45078 137 95896 88630 97565 41049

Attention (message repeated) Out

26-03: Disappearing digits due to technical problems.

10448 kHz, 27-03/31-03, 1625 UTC

974/33 Attention

03529 10161 80233 93757 27859 79229 01681 31516 60488 88238
35412 40758 98922 10756 69320 57560 58071 75888 61373 77198
61836 99494 90515 11724 37497 95624 50527 73220 96168 92960
83908 68100 75584

Attention (message repeated) Out

5844 kHz, 27-03/30-03, 1730 UTC

408/32 Attention

56407 23847 92995 62051 56518 08261 68511 66199 27411 05877
20792 50189 30218 03170 88908 24185 08566 70113 16250 02632
86017 22659 10911 58526 28571 14921 36378 84397 63369 59102
21471 60165

Attention (message repeated) Out

10800 kHz, 28-03, 1645 UTC

335/40 Attention

01515 78571 60375 05296 07309 66025 66358 13196 09677 08180
18388 62915 14689 63300 43968 89722 30514 90832 98182 90224
94551 92940 23654 16056 70723 18945 80296 63234 68733 98375
03834 64187 58189 67639 12102 38729 10912 44844 04713 99776

Attention (message repeated) Out

Repeat of 26-3 but without problems this time.

7840 kHz, 29-03, 1000 UTC

306/38 Attention

14179 04756 75311 04531 19568 22868 77032 21486 79527 68210
43335 54933 23910 37564 93809 56060 09759 28419 98253 06026
29779 21946 23744 13688 48406 19575 74713 40901 26533 12865
78133 78382 03645 05879 92635 61682 52715 56253

Attention (message repeated) Out

8102 kHz, 30-03/31-03, 0710 UTC

492/31 Attention

26727 61434 83267 63796 15307 91109 11193 34262 89223 48852
43286 91944 70801 00782 13993 47887 95673 55359 76293 34507
00872 22154 36037 06971 15741 96569 24077 09178 56571 23574
18794

Attention (message repeated) Out

E17z

14260/12930 kHz, 07-03/14-03, 0800/0810 UTC

674 809 5 06039 70038 95962 77536 31288 809 5 00000

14260/12930 kHz, 21-03/28-03, 0800/0810 UTC

674 235 8 07931 98755 84638 45752 64655 58202 44206 29464 235 8 00000

E25

6140 kHz, 04-03, 1358 UTC

111

Message

4512 9231 9021 9961 8243 3127 4803 1732 8935 6188 2284 9231

End of message. End of Transmission

6140 kHz, 06-03, 0930 UTC

Music: Oum Kulthum

G06

4792 kHz, 01-03, 1930 UTC

436 967 42

45678 68475 69385 39620 49385 48736 37233 65864 28376 29395
48638 34693 23852 23468 34679 34687 32929 23658 24368 26722
67564 69477 23725 24369 90453 78347 36125 21632 13258 23658
65824 67893 79435 83478 32496 23582 29693 23682 23692 23648
23936 26389
967 42 00000

5442 kHz, 15-03, 1930 UTC

947 967 42

45678 68475 69385 39620 49385 58736 37233 65864 28376 29395
 48638 34693 23852 23468 34679 34689 32929 23658 24368 26722
 67564 69477 23725 24369 90453 78347 36125 21632 13258 23658
 65824 67893 79435 83478 32496 23582 29693 23682 23692 23648
 23936 26389
 967 42 0000

5940 kHz, 28-03, 1830 UTC

579 969 47

43067 32412 32464 08912 27463 34712 98514 02953 28414 23202
 32325 13285 65802 35245 97462 06425 08635 65742 94712 74853
 28520 92210 03746 07582 91532 77595 98553 13462 63659 45847
 25350 07473 17624 87923 84332 81620 21244 31265 26183 12874
 22384 81673 36123 86753 28203 20329 28935
 969 47 00000

5442 kHz, 29-03, 1930 UTC

947 969 47

43067 32412 32464 08912 27463 34712 98514 02953 28414 23202
 32325 13285 65802 35245 97462 06425 08635 65742 94712 74853
 28520 92210 03746 07582 91532 77595 98553 13462 63659 45847
 25350 07473 17624 87923 84332 81620 21244 31265 26183 12874
 22384 81673 36123 86753 28203 20329 28935
 969 47 00000

S06**15721 kHz, 05-03, 0400 UTC**

480 672 55

19459 50992 59387 37834 51615 49178 09891 51013 34779 21176
 99892 96706 69699 68165 97482 01279 92756 69884 65475 74477
 06087 78974 51929 55793 78110 67395 40924 62082 50409 04560
 62025 28650 11894 71908 81881 60981 26189 43589 26387 39295
 23177 87942 06842 43127 90645 69469 48567 88113 26969 55984
 45385 92172 40753 60617 88424
 672 55 00000

15721 kHz, 07-03, 0400 UTC

480 297 55

96840 68579 68737 81763 57595 62949 09091 03662 55936 39819
 23846 52430 89488 29867 54173 47762 00937 42588 02889 55472
 53020 35008 46802 92982 74714 36365 28849 33734 02051 45925
 15946 40214 61992 46139 33505 80283 72821 98313 12550 06490
 59464 12993 10359 03062 07196 12229 90592 30261 02160 25941
 73817 20786 32148 89540 94391
 297 55 00000

15721 kHz, 11-03, 0400 UTC

480 613 50

78742 58496 21666 19698 46696 20400 80039 46779 12758 76917
 58444 41607 19573 67630 61491 35807 43116 36635 05837 68498
 33157 78660 69494 26595 83523 34105 85771 08254 18077 62682
 30278 51650 03356 50383 74431 96277 23813 29406 03914 68950
 80588 15778 25495 11706 99754 94332 10685 93780 60975 05741
 613 50 00000

15721 kHz, 12-03, 0400 UTC

480 529 61
43454 22816 85217 87917 93461 99405 35196 44336 65133 90309
75781 94300 33613 43491 83002 73969 34853 89463 38205 09006
66775 40868 94705 91550 92884 04258 05467 62365 71749 21281
97747 27843 60806 81444 05671 66573 67916 73639 96626 05140
49116 68637 52473 67844 75986 49721 91451 30046 21104 33649
41763 29802 34982 49141 02749 17494 12964 65071 54593 48133
75486
529 61 00000

15721 kHz, 13-03, 0400 UTC

480 763 55
60014 64427 45979 23580 47731 08900 40282 67192 88291 34252
30084 82874 57390 19809 91287 21507 41241 30693 94786 38986
01533 61366 17951 22444 50258 28502 02709 49365 89083 86596
27390 15566 92961 64788 84522 92948 42670 48288 81785 02985
35963 52891 08282 16849 32021 65982 33339 18165 08895 52490
30012 89274 38615 49216 40483
763 55 00000

15721 kHz, 14-03, 0400 UTC

480 480 480 00000 480 480 480 00000 (R4)
591 60
91576 83002 80997 25898 03072 67579 84585 73436 19127 91517
81877 44279 77198 10834 71579 00097 01340 99278 64902 84233
19670 29460 59927 37251 60857 48987 91053 87965 28034 43815
14496 24654 73599 05988 15749 76129 23331 47966 49960 57363
23255 30719 51154 59349 07710 97778 71237 87889 12028 32433
34731 80996 78297 80254 20163 59594 27621 04150 04049 91209
591 60 00000

10755 kHz, 16-03, 1300 UTC

480 795 42
49563 01154 35760 43827 70133 41841 91351 23807 46730 26195
36508 65502 07278 88195 63001 89482 40690 02059 14403 02084
54905 99393 82853 77357 69779 24274 23272 32630 13025 36453
01089 48475 62523 89342 52755 47781 00930 72731 53277 31812
31821 27269
795 42 00000

15721 kHz, 19-03, 0400 UTC

480 752 58
82202 91990 95235 68643 74961 94656 17280 94222 38524 85236
06178 79551 73566 23429 17043 58282 13754 79595 86806 15728
63947 44514 76762 70349 51390 04086 39826 78780 94574 02411
29677 50321 19474 41686 93996 81846 77817 92355 18965 49058
47113 11953 17220 15024 17089 96068 76459 41939 92251 09889
10876 17048 65247 73739 82609 28663 40700 01061
752 58 00000

15721 kHz, 22-03, 0400 UTC

480 963 57
72996 89976 54470 57448 12616 03423 25305 63906 77705 49793
46439 39335 20334 73884 39102 51091 58328 44973 25434 63654
58000 89229 84309 86516 17373 24577 19378 83114 54576 21424
56492 26727 31108 37722 12721 14295 64643 01765 04130 74072
11087 41195 84521 28078 20545 81623 32321 95261 96918 63325
27786 46330 15790 49438 87749 46175 80297
963 57 000000

15721 kHz, 26-03, 0400 UTC

480 269 55

07601 56098 77266 90798 93316 87248 23895 68449 54806 14295
 24214 30942 48986 80004 57961 81421 88918 11381 43616 04651
 35209 70408 60909 23279 96097 48265 90607 40535 59680 20175
 57530 99036 06697 03087 87714 10398 77318 83385 15690 35324
 90382 06797 02780 18886 38505 47696 52379 10655 07503 99996
 33145 24388 93580 56800 46023
 269 55 00000

S06s**Oddities:**

Often 0,1 or 0,2 kHz off frequency

9255 kHz, 06-03, 0840 UTC

464 921 5 34242 83255 55945 60494 93543 921 5 00000

S06s 745 schedule on 12140 kHz in the background

S11a

Note: Various distorted transmissions. Same problem for E11/E11a.

7469 kHz, 05-03/08-03, 1020 UTC

429/38 Vnimanaye

25582 42190 93301 26863 28713 66520 88651 82579 97204 21037
 05536 21294 94559 65641 56915 32909 39888 25286 00821 72213
 02450 49698 72538 36639 13273 60442 23913 31194 95508 92714
 65586 69958 08325 03262 91176 49265 06940 01141

Vnimanaye (message repeated) Konets

10800 kHz, 06-03/09-03, 1540 UTC

563/38 Vnimanaye

54017 82373 80376 28549 56472 03004 69902 97854 08685 71317
 84255 21922 34933 43701 03271 68861 58294 21526 68552 99911
 58220 25197 54538 41583 20148 12271 10299 66509 33526 28326
 39372 86878 11387 85466 40629 31414 51601 58099

Vnimanaye (message repeated) Konets

10213 kHz, 13-03/16-03, 1850 UTC

280/31 Vnimanaye

91822 39840 76549 13501 97383 22039 46212 94672 41946 90835
 23238 57945 14093 53720 33579 61006 36481 83073 92391 94045
 90607 75399 62288 58234 03129 79596 50599 15017 27305 53527
 78993

Vnimanaye (message repeated) Konets

5358 kHz, 15-03, 0455UTC

326/39 Vnimanaye

67927 02388 09643 18764 65060 03025 37597 38797 17583 59758
 02326 78106 16546 49526 63722 03942 03048 46552 36587 33453
 86695 63522 60276 50015 68834 90965 88643 11820 75111 70203
 71992 54100 17600 96312 39328 99843 22593 57614 28533

Vnimanaye (message repeated) Konets

5371 kHz, 19-03/22-03, 0455 UTC

325/31 Vnimaniye

89066 03027 73871 17493 08299 74381 42971 71596 21426 88085
77108 75131 25233 19116 82055 17296 96756 70446 26772 85571
13817 42918 84227 17687 54781 00349 44277 05176 21861 11810
98827

Vnimaniye (message repeated) Konets

11493 kHz, 25-03/28-03, 1015 UTC

477/36 Vnimaniye

13510 66027 59499 05378 90385 84329 91675 45178 02982 26605
40128 56644 27220 94063 03677 82053 57715 12811 42784 97235
46885 17214 10016 68531 72073 29337 35772 31791 07950 96941
53801 94429 62370 25969 80050 91763

Vnimaniye (message repeated) Konets

V07**15893/14693/13893 kHz, 03-03, 0100/0120/0140 UTC**

868 868 868 1 562 22 562 22

34337 96058 99103 78170 91193 95474 52522 02895 78206 79122
48638 85734 97098 04043 36210 23235 53124 89773 06863 42055
63997 18061 000 000

15893/14693/13893 kHz, 10-03, 0100/0120/0140 UTC

868 868 868 1 9963 102

24268 58959 88954 34570 15567 23082 34127 86005 20702 88227
46759 03823 49857 25503 19875 57021 40566 12623 68030 31216
64521 36440 64459 80060 53624 44862 63399 43743 58131 15861
42271 93309 58687 76023 71760 97728 92338 60308 23121 88666
55215 81251 03079 01182 64217 53142 85638 51344 80318 97753
97812 79569 86484 59700 09502 57908 88031 19213 13344 88252
11513 99531 33672 82735 64493 14961 05702 09737 11640 19145
75977 20099 26810 90367 91333 87044 00365 72111 86173 39471
20340 62450 16121 54126 00241 80191 16045 25194 07160 46839
69179 57713 14217 16692 56385 22933 23766 65200 17324 90497
84690 51752 000 000

15893/14693/13893 kHz, 17-03, 0100/0120/0140 UTC

868 868 868 1 6628 100 6628 100

91327 67802 07784 01199 93963 98091 67283 85927 66801 06095
69627 53121 98391 97842 05519 45513 95618 32423 87842 83978
70367 66643 85760 74710 90365 57226 09893 37150 33659 18175
38385 06364 91644 27516 92926 74259 13142 23671 85135 43956
67314 03787 25010 53104 49110 65049 51903 15590 61032 22335
92084 57912 37677 17210 59777 37470 51155 22212 60493 06239
25004 05942 22613 72452 69700 69286 16898 00152 43266 39215
39389 32756 53125 39646 47196 92108 07789 91475 50719 35758
38360 02555 93685 56874 17180 59905 71686 64221 62774 75083
49423 60414 51564 07636 13411 32159 26161 55307 44086 91195
000 000

15893/14693/13893 kHz, 24-03, 0100/0120/0140 UTC

868 868 868 1 9786 92 9786 92

29750 83164 08042 68088 53801 55461 00473 05380 87854 70118
 76039 17376 67066 64961 70564 96259 36741 69703 99298 93374
 97726 03891 28083 08206 37813 94215 16916 72342 38013 09711
 71428 03268 40251 76163 23229 37401 61320 29623 17588 60020
 13432 19071 84014 07286 58919 83708 74677 16542 86811 96202
 43661 50920 70662 86432 69816 97928 63633 82932 81496 19065
 75387 00228 10173 47448 53692 29209 27794 86181 32108 42890
 34658 26430 33669 01699 13416 87449 86485 11405 74145 62643
 81257 53470 73310 58998 67593 68590 74019 97454 80263 11627
 15610 88744 000 000

15893/14693/13893 kHz, 31-03, 0100/0120/0140 UTC

868 868 868 1 480 100 480 100

91162 15075 45716 35599 93708 05289 02276 51747 05716 52008
 84283 72344 63089 85396 73312 26219 99676 19002 44684 39065
 43319 55930 95493 54847 87233 32271 60267 67522 07743 40901
 60394 84248 75996 13855 57324 29103 70052 68017 55379 03638
 80194 35839 49188 12583 62875 86450 56112 65314 99288 04462
 25507 76458 32349 60622 54021 46443 66106 16253 87358 43708
 45184 78629 24899 72872 48850 42250 70843 64754 62442 02399
 24608 61490 70166 06508 33981 43818 76676 67113 27313 43881
 58496 20598 12799 12187 55406 85919 37256 69154 96034 69949
 37467 10210 09764 92372 00982 88377 81354 17776 85752 21307
 000 000

V13 - New Star Broadcasting Station (星廣播電台 Xīngxīng guǎngbò diàntái)

Still a very unpredictable schedule. Heard on

11430 kHz, 16-03, 0610 UTC, AM

8169 kHz, 27-03, 1435 UTC, AM

V15 via PBS Pyongyang Pansong**3320 kHz, 09-03, 1444 UTC, AM**

North Korean Intelligence via PBS Pyongyang Pansong. Music followed by a message in Korean

657//3320 kHz, 23-03, 1445 UTC, AM

North Korean Intelligence via PBS Pyongyang Pansong. Music followed by a message in Korean

MORSE STATIONS**MX - Russian Military beacons**

Reported beacons in March.

D 4557.7, 5153.7, 7508.7, 10871.7
 A 4558.1, 5154.1, 7509.1, 8495.1, 10872.1, 13528.1, 16332.1
 L 5156.8, 8497.8
 C 10872.0, 13528.0
 V 4031.0, 5466.0 5590 7053
 S 3594.9 10871.9, 13527.9
 M 5155.4 7039.4 8495.4 10872.4

M01

6260 kHz, 02-03, 1500 UTC

463 331 331 30 30 = =
08529 69210 45979 66829 49235 28236 72909 65594 59771 87270
99768 56400 91024 49089 35623 26092 45292 08764 38860 15648
70903 07568 55485 42174 39131 06626 66557 77338 61906 65052
= = 331 331 30 30 000

6510 kHz, 03-03, 0700 UTC

463 392 392 30 30 = =
34242 26651 05216 66867 32126 47025 75181 27682 91082 35868
75582 08462 02702 03474 93696 08115 88918 17954 89588 14158
38870 77170 42518 38607 08189 93963 00330 90684 89650 41819
= = 392 392 30 30 000

5475 kHz, 07-03, 1800 UTC

463 301 301 = 30 30 = =
53030 39220 76764 58481 77340 53232 58991 79161 74597 05418
01962 45652 37648 99353 46010 55709 33820 27864 79171 67438
79243 19789 86810 65013 47011 00910 24223 87439 64308 95187
= = 301 301 = 30 30 000

5020 kHz, 07-03, 2000 UTC

463 103 103 = 30 30 = =
11876 10542 95192 24926 76447 16096 85512 86331 39000 06753
34512 85092 07063 27107 46028 08943 00351 62502 67956 54393
47961 54636 46105 92137 99954 45264 19864 55685 05969 05586
= = 103 103 = 30 30 000

6260 kHz, 09-03, 1500 UTC

463 523 523 30 30 = = = =
34774 04648 56504 25567 08177 26893 77393 83818 34959 99662
84553 56146 16911 75246 67376 64729 03040 12870 90679 64914
85073 31500 86816 05058 04214 59310 76185 07190 02878 94680
= = = = 523 523 30 30 000

6510 kHz, 10-03, 0700 UTC

463 515 515 30 30 = =
60249 90226 62727 21090 18332 55476 02352 65884 21090 07412
31608 64828 68909 75095 28933 09010 29315 87776 36227 52459
17634 54129 08881 12218 53318 79860 91776 01597 75660 71981
= = 515 515 30 30 000

5475 kHz, 12-03, 1800 UTC

463 310 310 30 30 = =
25428 06952 54312 92765 95998 43714 81198 27237 49690 76217
45099 48155 40148 35130 41959 57632 60031 74395 73655 97508
96327 29716 49229 37409 39073 68569 50795 54386 51286 10424
= = 310 310 30 30 000

5020 kHz, 12-03, 2000 UTC

463 901 901 30 30 = =
69200 77156 65891 85741 37767 48429 42618 53086 45215 15950
82029 20724 69079 80106 95723 99731 05823 73298 58567 28350
93023 68976 37292 09337 81737 25603 72608 02138 07033 88567
= = 901 901 30 30 000

5475 kHz, 14-03, 1800 UTC

463 301 301 30 30 = =
12864 09974 50971 85975 13832 57590 13606 99020 23669 59674
80004 88262 36539 71742 87524 04627 96003 51014 89544 66649
06189 15174 41949 15372 55758 06131 61401 33298 97054 24399
= = 301 301 30 30 000

5020 kHz, 14-03, 2000 UTC

463 777 777 30 30 = =
78741 39798 09658 00496 50545 65252 49938 80350 94976 50476
20858 23381 70337 70959 18229 20465 67883 44969 15315 57126
01753 46547 58379 86598 82432 96539 34111 88077 66350 11888
= = 777 777 30 30 000

6510 kHz, 17-03, 0700 UTC

463 905 905 30 30 = = = =
71595 79180 89105 16967 65901 87639 49834 69607 55662 58253
67900 86630 23907 87641 46710 46092 08651 00402 23531 89142
52699 92790 65234 32997 82869 53110 04941 49329 35382 20935
= = = = 905 905 30 30 000

5475 kHz, 19-03, 1800 UTC

463 307 307 = 30 30 = =
81475 21279 35541 68499 41193 17843 87768 22710 84194 63200
75789 07089 26559 01102 67713 07056 07349 19413 76376 99380
06177 00718 64713 49593 00891 46106 04299 16095 83005 79212
= = 307 307 = 30 30 000

5475 kHz, 21-03, 1800 UTC

463 112 112 30 30 = =
37354 62059 27721 84385 73668 73248 66231 43907 69800 54221
82191 50386 26429 42966 96223 86566 94024 51227 76578 04316
25165 29738 58629 43649 67343 27516 84015 80725 54020 78284
= = 112 112 30 30 000

5020 kHz, 21-03, 2000 UTC

463 121 121 30 30 = =
20609 95525 66389 91764 81369 86567 80359 59123 20130 89288
34625 28590 93667 37011 60828 41843 51867 79442 30001 11720
50018 95069 24988 53477 31730 48243 36297 60702 16040 34200
= = 121 121 30 30 000

6260 kHz, 23-03, 1500 UTC

463 315 315 = 30 30 = =
33026 05817 18323 41282 86037 39772 52640 71329 25874 07598
55330 78436 72967 16837 12429 27800 33501 90778 14889 51137
12172 47972 81341 (47972 81341) 69102 77058 88953 67367 36403
45207 47741
= = 315 315 = 30 30 000
Groups 22 and 23 were sent twice.

6510 kHz, 24-03, 0700 UTC

463 127 127 30 30 = =
79485 85164 73358 43450 26484 29989 02595 33479 42901 53892
62306 29234 95229 48012 99832 18068 73187 84078 46796 70760
91085 13442 43510 17881 07388 06392 11473 77988 94280 69999
= = 127 127 30 30 000

5020 kHz, 26-03, 2000 UTC

463 137 137 = 30 30 = =
 08070 72959 84625 62471 39592 22820 83121 69946 63220 74188
 55023 71763 16844 98891 12041 81687 22123 81911 11093 57976
 08009 05202 28902 19468 82875 23779 11203 91134 58339 49650
 = = 137 137 = 30 30 000

5475 kHz, 28-03, 1800 UTC

463 887 887 30 30 = =
 36317 06157 97934 89115 15732 03206 20231 87351 08346 13681
 18085 49087 87936 18791 76506 72902 76537 49150 72359 67014
 36045 40297 09857 67785 50951 75234 84786 39052 03094 59745
 = = 887 887 30 30 000

5020 kHz., 28-03, 2000 UTC

463 901 901 30 30 = =
 45994 09023 66434 15224 17987 38054 82610 19662 48480 06315
 31315 17303 22680 18120 19788 79600 48539 85214 33812 85141
 44998 14101 55100 19522 78681 76098 78293 13612 07381 85178
 = = 901 901 30 30 000

6260 kHz, 30-03, 1500 UTC

463 317 317 30 30 = =
 77418 78830 88262 56805 15380 53253 17470 84288 74947 98319
 96102 73082 97722 15430 75640 01647 24322 58118 65617 58720
 61445 85258 96674 64248 84432 36823 33852 20394 76090 48690
 = = 317 317 30 30 000

6510 kHz, 31-03, 0700 UTC

463 321 321 = 30 30 = =
 26627 90761 53406 96778 42603 32377 09270 47440 83327 47440
 83327 99773 57937 46476 52098 07395 71699 64144 66258 85578
 87849 19288 47505 77353 20743 96503 92214 17673 91557 34736
 22846 42161
 = = 321 321 = 30 30 000
 Groups 8 and 9 were sent twice. Included various errors.

M01a**5859 kHz, 10-03, 0754 UTC**

830 830 830 205 21 205 21
 830 830 205 21 205 21
 830 830 830 205 21 205 21
 111 000

9411 kHz, 12-03, 0530 UTC

751 751 751 96894 96894 (R4)
 751 751 751 95792 95792 (R4)

10233 kHz, 12-03, 0620 UTC

354 354 354 78505 78505 (R4)
 354 354 354 79326 79326 (R4)

9447 kHz, 12-03, 0628 UTC

143 143 143 88058 88058 (R4)
 143 143 143 88058 88058 (R2)
 111 999
 00166 00040 60426 49300 ... 68648 85545 00040 00166 00000 =
 166 45 111 000

10651 kHz, 12-03, 0710 UTC

297 297 297 38180 38180 (R4)

297 297 297 39318 39318 (R3)

9151 kHz, 12-03, 0717 UTC

728 728 728 43504 43504 (R2)

111 999

00167 00030 70426 49300 ... 68648 85545 00030 00167 00000 =

167 35 000

5473 kHz, 12-03, 1405 UTC

473 473 473 99427 99427 (R5)

7692 kHz, 13-03, 0539 UTC

958 958 958 47436 47436 (R5)

958 958 958 49337 49337 (R5)

9421 kHz, 13-03, 0620 UTC

135 135 135 60479 60479 (R5)

8111 kHz, 13-03, 0630 UTC

Test Tones

9175 kHz, 13-03, 0710 UTC

146 146 146 45623 45623 45623 (R3)

111 000

9447 kHz, 15-03, 0634 UTC

143 143 143 80037 80037 (R1m25s)

000

10651 kHz, 15-03, 0710 UTC

297 297 297 35916 35916 (R4)

297 297 297 36146 36146 (R4)

9151 kHz, 15-03, 0718 UTC

728 728 728 44783 44783 (R4)

728 728 728 45666 45666 (R4)

000

3882 kHz, 18-03, 1553 UTC

598 598 598 79653 79653

333 46

333 37

333 37

111 000

4905 kHz, 19-03, 1216 UTC

94013 24648 04613 54798 74052 49840 13498 65412 36870 46521 =

347 10 000

5045 kHz, 21-03, 1042 UTC

i.p. = 347 10

111 000

4484 kHz, 26-03, 1836 UTC

333 69107 333 69107
111 999 325 43 =
49451 00963 25529 44039 00395 97672 40428 66478 62480 80438
07934 80089 55262 84365 12929 33647 64385 58817 27796 80627
95925 66616 80730 43979 65248 56835 08630 07875 01360 36747
55655 78348 23428 60169 62075 45916 65275 28747 04096 67795
93110 93765 78085
= 325 43 000

5030.3 kHz, 26-03, 2015 UTC

536 536 536 52799 52799
536 536 536 52799 52799
536 536 536 52799 52799
536 536 536 52799 52799
536 536 536 52799 52799

5030.3 kHz, 26-03, 2022 UTC

536 536 536 52899 52899
536 536 536 52899 52899
536 536 536 52899 52899

5030.3 kHz, 26-03, 2034 UTC

536 536 536 52899 52899 52899 52899 52899 52899 52899 52899 52899 52899

4571 kHz, 27-03, 1745 UTC

333 90570 90570
946 946 946 333 90984 90984
946 946 333 90984 90984
04007
333 99557 99557
333 99557 99557
333 99557 99557
333 90823 90823
333 90823 90823
333 90823 90823
946 936 936 333 99517 333 99517
946 936 936 333 99517 333 99517
946 936 936 333 99517 333 99517
04007
946 946 946
111 90904 90904
111 90904 90904
111 90904 90904
111 90904 90904
111 90904 90904
111 333 111 04005
946 946 946
555 98585 98585 96532 96532 90393 90393 99374 99374
111 111 111 000

4484 kHz, 26-03, 1836 UTC

333 69107 333 69107
111 999 325 43 =
49451 00963 25529 44039 00395 97672 40428 66478 62480 80438
07934 80089 55262 84365 12929 33647 64385 58817 27796 80627
95925 66616 80730 43979 65248 56835 08630 07875 01360 36747
55655 78348 23428 60169 62075 45916 65275 28747 04096 67795
93110 93765 78085
= 325 43 000

2806 kHz, 27-03, 1823 UTC

111 999 111 999 111 999 111 999 111 999

2806 kHz, 27-03, 1823 UTC

29 29 29 510 63 510 63
 329 329 329 510 63 510 63
 329 329 329 510 13 510 13
 329 329 329 511 14 511 14
 329 329 329 511 14 511 14

2713 kHz, 27-03, 1839 UTC

549 549 549 885 91 885 91
 549 549 549 885 91 885 91
 111 999
 186 20 =
 85948 73832 67818 32175 73466 83826 12234 63432 98321 85948
 80289 09932 53284 62985 45438 65327 35894 37995 02348 9823
 = 186 20 000

M12**8158/9258/10658 kHz, 02-03, 0600/0620/0640 UTC**

126 126 126 1 6655 113 6655 113
 55967 28487 61629 67726 55871 05385 74367 30976 29644 12313
 99387 78609 31263 73548 75962 22581 23971 46043 64730 65955
 88258 56550 83192 28110 10054 00381 81093 95124 14973 67206
 89956 61764 01481 43165 47742 32159 55456 00689 75440 86031
 81378 96505 35771 96465 99666 62919 03677 90098 35678 49613
 86191 15251 75281 63927 97105 18459 07618 71368 01469 74312
 96553 57464 89910 87503 22498 88336 88501 97808 92037 91807
 93741 23243 98111 18542 48011 59598 59825 35286 24879 42898
 60998 85394 57976 68419 00707 47651 96048 38805 63961 64016
 61157 21556 57129 67874 53414 03696 27223 69369 73046 67883
 35805 05671 74032 06366 53836 92454 53675 58891 05105 84857
 01096 55296 97401 000 000

16276/14876/13376 kHz, 04-03/06-03, 1400/1420/1440 UTC

283 283 283 1 176 34 176 34
 47320 24323 49923 13324 46438 46739 62050 75828 55523 98977
 13137 19523 19842 24191 60749 91795 68622 35399 27722 99710
 24147 55171 55328 83128 58784 29151 46741 57574 67178 80291
 22349 37901 80665 01574 000 000

8047/6802/5788 kHz, 04-03, 1800/1820/1840 UTC

463 463 463 1 7559 93 7559 93
 69600 44136 83003 96254 57384 67842 97549 66881 77349 01754
 08829 74203 35254 84690 92738 90824 35554 27302 89643 54571
 18322 76371 41919 83519 51582 14886 22475 15718 34668 06120
 88178 71731 88105 43784 48294 92205 13262 62948 99432 59069
 24745 51652 11961 53397 97417 98193 39820 93756 59049 54149
 68988 38130 15211 72027 73739 97707 74960 87307 65823 06824
 39396 34541 42254 09481 18492 48904 95905 48119 44203 32151
 70465 69262 31954 33678 33260 04723 25966 16627 39660 54569
 90629 80995 74667 23619 05536 07071 19675 97532 58808 52854
 01205 22687 07862 000 000

8126/7526/6826 kHz, 08-03/09-03, 2200/2220/2240 UTC

178 178 178 1 2414 14 2414 14

43360 57829 07139 84976 47606 69761 81000 94049 18300 40119

93370 43789 36995 89840 000 000

8047/6802/5788 kHz, 11-03, 1800/1820/1840 UTC

463 463 463 1 1069 99 1069 99

69802 13684 01311 25652 90351 06132 60439 43450 16017 72714

90926 61111 08112 68126 85819 71473 55375 73330 30253 91211

85706 81976 05909 82123 11340 97592 51147 71432 29385 53784

34678 26086 69595 62276 01552 17597 48519 69471 54999 90280

62757 95901 76589 26115 28233 60516 33395 50037 09733 50560

96622 20851 82043 03498 29189 69720 24396 67090 16075 72957

90075 33120 26352 79044 66087 87193 92513 82553 25573 70638

63583 22513 57975 76082 22247 97725 53608 12166 59078 45873

22827 06431 37876 52102 12402 86718 33081 51671 53383 29101

52232 63119 26632 77189 94352 72993 08643 19595 35564 000 000

10343/9264/8116 kHz, 11-03, 2000/2020/2040 UTC

124 124 124 1 9274 101 9274 101

77109 77671 47095 62947 68757 42387 45247 70300 00095 94481

28244 78278 69125 28106 59382 59372 54777 15746 83795 04087

51372 03220 98132 70321 12083 24789 94419 06864 15340 07290

10308 54307 71326 36711 95818 03194 29627 15198 76178 32502

46333 21488 98104 39450 23773 10809 18697 67574 64795 40352

19820 33409 31478 61577 20163 44230 72786 23974 47024 95950

84034 31980 10803 91984 99873 68632 07876 51894 06241 18898

75686 79178 67625 25504 14197 62041 52971 58980 39053 80278

43897 28014 76917 11103 64234 79717 23230 81338 46877 89515

40545 27641 20854 83231 86902 56912 52401 34245 40219 79939

12977 000 000

13952/13452/12152 kHz, 13-03/15-03/20-03/22-03, 1310/1330/1350 UTC

941 941 941 1 5793 185 5793 185

90420 75022 73829 38794 64696 22627 08590 49098 62616 88333

38601 76820 35659 99413 50186 49492 38547 10592 44415 40202

95120 82901 06394 51257 18314 04562 81077 94451 72287 65686

49587 49577 68943 69172 74192 12120 52945 59526 08393 63952

24146 58217 35487 56472 40086 88611 81742 29648 29066 44277

94340 86595 56903 85216 19049 33669 73484 55565 68389 21666

22019 55627 24744 76714 31629 97739 47526 57423 23340 18623

47297 99754 46554 18465 23863 89172 61760 04174 77428 19502

81207 09772 45626 21141 92150 22144 48702 70703 83255 01685

32506 05615 81035 67348 58496 53742 91688 14622 59181 23307

17912 04347 42276 06033 68336 80253 93244 83115 77296 12242

62425 07469 76627 20055 10872 96635 27943 64408 96379 50113

24166 50770 57632 99684 90149 02625 52164 18216 70484 89742

84860 96092 86344 33800 87584 55161 07142 30881 53050 69461

10049 13796 96005 42710 35184 42603 49609 81154 20481 86306

36687 04846 81726 18932 01695 13854 03089 50701 34372 17904

61070 15769 75673 55191 50234 10719 23331 95917 61214 66185

76066 27770 56530 84201 74666 51367 28831 91468 79130 65617

81134 31650 96025 89824 40926 000 000

8126/7526/6826 kHz, 15-03/22-03/23-03, 2200/2220/2240 UTC

178 178 178 1 254 18 254 18

52971 14240 01779 93356 90634 13090 17477 85073 86813 08047

40682 60199 70511 60432 56270 93768 97378 32660 000 000

8047/6802/5788 kHz, 18-03, 1800/1820/1840 UTC

463 463 463 1 5846 92 5846 92
15834 45548 59355 33332 39449 56814 08293 77846 64294 99244
61850 72797 04477 00707 06844 53999 22391 00004 38917 26547
65288 79221 23159 09275 52230 79742 97155 90894 82765 88743
89505 77118 83852 16685 36383 21355 09015 53169 11518 70228
10322 94982 19434 71077 10337 39294 80350 71613 82676 61728
02018 53917 23741 56502 82211 51362 16432 93414 22122 90518
20277 50353 49223 55013 90690 85812 25801 55936 10506 63571
82195 96726 45955 38709 75662 58177 14395 33912 99069 79309
18746 20322 52111 26959 94905 65740 20937 39770 45178 12322
60878 17904 000 000

10343/9264/8116 kHz, 18-03, 2000/2020/2040 UTC

124 124 124 1 1251 109 1251 109
63393 82232 42642 18475 87631 36855 31274 30883 91983 87668
77536 45833 01041 46106 65161 79020 43380 90083 95827 50854
82921 11023 55273 07953 38062 04897 38508 03028 83736 09716
07526 66951 92730 00872 91173 87944 98007 26327 89286 16211
42344 64923 27768 43040 73215 37471 57413 11738 75825 22406
52782 10742 20105 57387 35238 09820 89097 54788 27758 12447
80727 03930 96824 86487 04829 04391 60031 81597 59161 35990
07776 36420 04471 22612 99158 14055 98388 29642 12028 15493
00462 79046 38341 02821 66187 28077 18961 06449 82156 72888
53814 28345 53300 08889 50417 42927 78006 99907 35897 91289
26323 18418 44975 94165 03245 01832 12571 40758 07268 000 000

12162/11566/10711 kHz, 20-03, 1710/1730/1750 UTC

546 546 546 1 7318 109 7318 109
54556 69288 28455 72092 88398 66080 83402 68688 12300 73019
64195 63147 30726 07166 38364 38786 45135 54064 26969 73562
22911 26543 23512 56906 93384 47600 56578 72981 79886 83007
60510 08249 83424 39685 90739 16614 95408 59124 52539 81984
03177 44921 90119 63716 49239 77319 57218 89313 14641 92551
26968 86944 75514 25996 93826 76332 86418 65795 61648 31810
86815 24199 44925 91267 85903 99294 32622 48291 98445 24761
58024 21554 77805 40038 29382 00327 36776 08513 63164 17804
23754 32557 09468 00525 21061 45874 45738 93939 59735 30693
13578 42251 27409 93156 55194 05856 86578 54768 21006 14678
44819 47872 55219 88512 96375 42234 74258 83309 24062 000 000

5763/5163/4463 kHz, 20-03, 2200/2220/2240 UTC

714 714 714 1 883 67 883 67
62744 97303 20350 98264 11818 89833 30778 71183 70884 50969
22004 34678 00209 89748 33705 81805 23883 67262 49767 29076
32186 76883 32351 83728 87391 33669 49119 75508 75504 11530
58838 23625 34715 00022 42230 03048 74139 91461 58079 06050
85281 78432 70358 06512 45719 60234 12791 88640 71241 76031
69123 05672 83435 31447 50777 53187 50868 26442 19657 67212
35164 58806 99194 29833 25379 72444 07674 000 000

8158/9258/10658 kHz, 23-03, 0600/0620/0640 UTC

126 126 126 1 883 67 883 67
62744 97303 20350 98264 11818 89833 30778 71183 70884 50969
22004 34678 00209 89748 33705 81805 23883 67262 49767 29076
32186 76883 32351 83728 87391 33669 49119 75508 75504 11530
58838 23625 34715 00022 42230 03048 74139 91461 58079 06050
85281 78432 70358 06512 45719 60234 12791 88640 71241 76031
69123 05672 83435 31447 50777 53187 50868 26442 19657 67212
35164 58806 99194 29833 25379 72444 07674 000 000

16276/14876/13376 kHz, 25-03/28-03, 1400/1420/1440 UTC

283 283 283 1 6465 80 6465 80
21254 47549 24822 11045 16551 74245 18948 67026 19641 08721
00474 39271 92472 01102 88849 59330 68948 38025 11016 24964
96643 83822 64989 16053 62146 88673 96555 27190 92205 32070
95508 37827 78040 98066 66685 02007 69671 15320 43390 52997
24651 38881 87686 72653 74517 03600 83939 60154 02149 38818
38945 59028 39718 61299 84781 18835 48238 19825 19376 71694
74694 90727 34678 98460 67207 75363 53966 09977 72088 71933
55024 76898 24514 03042 45539 52454 05895 90398 71819 000 000

10343/9264/8116 kHz, 25-03, 2000/2020/2040 UTC

124 124 124 1 7502 109 7502 109
72396 95285 35955 22531 78456 10264 42830 93431 55860 94939
02497 16579 13096 06876 29193 90687 40847 74838 55453 61346
36788 66132 38360 49721 98787 03719 73253 92243 13110 43707
84019 67066 24963 45264 65208 27963 34906 08389 83910 41427
07223 31681 89304 53206 55591 13600 05916 40261 22816 85247
61930 83832 85984 79418 72251 90734 54906 18294 16310 20712
67416 95356 56811 79318 41365 40601 32050 50089 90810 45811
42144 60699 04474 05958 43330 01809 92930 74124 88161 31296
60657 74172 07050 23179 54625 66105 65944 06676 56859 23237
27599 52913 39473 46919 71327 83653 48833 35917 70579 33235
37040 29544 82870 61127 49072 14636 43060 63261 74803 000 000

13952/13452/12152 kHz, 26-03/29-03, 1310/1330/1350 UTC

941 941 941 1 244 200 244 200
84863 56230 81577 53104 90327 94457 81391 21162 92447 03408
05953 80018 66508 90611 04192 67176 30391 12457 60640 45194
36385 24061 91368 80258 97944 37349 91862 05304 71901 21661
39937 22458 31637 27862 49022 05755 56795 95420 76360 96036
16481 59461 67933 53191 65325 09375 95778 68025 12367 17916
47459 83160 68419 88982 72499 33769 01595 90121 60867 63299
60089 45611 03006 02183 71016 44519 20639 28800 07266 34989
88266 10843 23978 33579 59106 41302 89252 05563 55438 90898
59933 18585 14670 41023 08700 81447 15075 16433 21915 56269
45172 84534 42135 11948 83793 58309 62668 95127 79989 01885
06714 30891 37472 17467 75824 40517 62802 16518 97171 35913
13216 00820 79578 03226 93708 89307 52534 93165 85670 67867
94037 69657 33973 08264 85549 49391 59697 63094 10484 04627
01724 05749 62283 44304 42508 80420 34953 38242 30501 26631
48385 54324 41230 63451 35424 60707 90188 66196 19588 46527
33606 16614 97856 06349 20024 35837 96777 10222 63643 67736
55979 76276 56792 90268 58668 92597 42990 60759 29960 26179
26566 32911 13762 61750 16094 06490 54290 14692 40373 37466
25331 67698 25280 85490 02673 12398 13385 39679 43082 87745
41156 90532 40818 79010 85577 92735 64158 30449 20208 19267
000 000

12162/11566/10711 kHz, 27-03, 1710/1730/1750 UTC

546 546 546 1 5282 105 5282 105

10174 57643 57538 71366 23663 81940 88912 14355 24937 16536
 03664 96942 79016 23799 05272 06511 94916 81496 77244 58777
 51673 53698 42274 38594 32424 87574 32428 26092 83291 68732
 01303 81633 02007 85751 79196 04285 13614 80274 52191 20776
 75888 39350 80391 41778 37674 37622 39908 60983 29396 67554
 36111 22238 89957 07839 24863 25291 24166 56159 35980 86276
 94163 13542 34631 75110 02343 07997 82372 15564 75915 85184
 71128 88593 51373 03133 57605 74603 71822 44829 71966 04544
 25859 72341 15130 89317 66724 88722 27386 98719 88830 17690
 58824 90072 91419 43005 57393 42791 18977 57235 07628 35904
 58320 03252 34207 43282 75668 000 000

8126/7526/6826 kHz, 29-03/30-03, 2200/2220/2240 UTC

178 178 178 1 8610 29 8610 29

25725 59626 49569 73564 59036 15985 91557 27532 93200 88321
 74752 81291 03737 48932 88555 68157 40912 03916 83985 05434
 89929 39761 27476 84990 24194 68105 82892 63935 98588 000 000

M14**4730 kHz, 02-03, 0800 UTC****4650 kHz, 02-03, 0900 UTC****0800 UTC**

Null message 523 523 523 00000 followed by a message at 0804 UTC

0804 and 0900 UTC

270 270 42 42 = =

67321 45236 10946 77215 63214 09451 26345 89461 37145 27361
 78451 46234 78456 36245 89045 78341 52390 84672 56347 09563
 78237 45048 56341 90451 26489 36127 90462 18945 37451 63278
 67342 14267 89560 06745 78452 67133 53678 90462 47380 33769
 56241 33781
 = = 270 270 42 42 00000

18041 kHz, 05-03, 0500 UTC

952 176 176 50 50 = =

12898 85720 47533 10247 42870 80291 59063 36956 00139 77354
 58420 06206 19935 00206 72804 82579 43107 17820 45699 51540
 12192 93918 25958 83591 85925 28318 18303 05556 89415 76505
 24954 27426 42132 58374 33044 98219 30930 92053 27527 89268
 20267 13774 34266 28400 16824 69711 22981 33420 30705 90733
 = = 176 176 50 50 00000

4730 kHz, 09-03, 0800 UTC**4650 kHz, 09-03, 0900 UTC**

523 146 146 42 42 = =

67134 76351 43728 29057 41267 89357 17352 90881 64527 89109
 55467 82351 78456 26451 87631 08451 63725 64899 73261 53109
 73261 47281 64190 14283 56130 43261 53872 90513 55276 81630
 13276 43189 01527 84617 52380 37190 83271 63571 90671 24378
 27130 90456
 = = 146 146 42 42 00000

18041 kHz, 11-03, 0500 UTC

952 704 704 55 55 = =

88594 70876 93620 27041 32692 79027 52688 13845 23575 15305
31186 30860 26083 89134 77392 00203 29489 15317 82470 38510
96055 75544 81810 32372 81948 41734 65443 59173 85203 34618
64736 89288 00439 16018 07529 30555 84978 38258 58931 00971
66101 91936 89939 40559 40559 44087 75904 41083 98320 70748
36686 73267 55224 08143 52774 23019
= = 704 704 55 55 00000

15994 kHz, 11-09, 0930 UTC. Two messages

617 432 432 65 65 = =

88392 52148 80762 13649 18237 34157 84122 96779 92785 59332
27084 31715 24298 04471 49089 78018 13709 13571 45875 64007
78285 85746 21644 28312 92849 49145 21481 36678 42681 17256
74648 49453 09865 82807 27726 85011 18857 49871 57041 26834
51265 94842 80883 34092 18307 39637 42329 00556 66314 90412
34846 62015 73269 17626 84483 85270 82419 23333 39555 91428
54836 52303 39042 09412 27097
= = 432 432 65 65

617 894 894 50 50 = =

05868 15649 42746 61005 67469 97487 28997 16033 06268 34679
62619 65672 70696 48853 53891 55882 76930 76861 76225 17125
20546 81019 76533 61184 15915 30787 16390 71601 33579 94750
20424 91723 48955 59480 01514 44701 78625 42706 42154 32746
90930 02488 27926 07378 88895 88713 08246 21380 88568 72794
= = 894 894 50 50 0000

18041 kHz, 12-03, 0500 UTC

952 386 386 59 59 = =

42777 79235 07383 29269 28843 24418 50817 50369 35525 71453
92707 86242 11353 54673 38074 03856 75506 66717 08892 81914
40630 41398 02121 19745 50991 13211 31033 62680 03152 89446
29524 42386 41344 95842 24107 55560 44752 81701 03266 29464
48861 95425 38860 47686 68085 66389 39269 34618 11854 54108
38959 22045 11332 50624 54170 46308 98986 47052 59393
= = 386 386 59 59 00000

5473 kHz, 13-03, 1930 UTC instead of 5463 kHz, 1920 UTC

537 899 899 50 50 = =

28901 36471 58902 78156 38903 47819 46120 56271 44561 89253
48901 27835 18902 26812 56101 62916 57192 53922 63812 95014
54629 81402 37822 09461 89365 73099 22185 63982 51834 48158
76219 46719 39825 20711 45670 26409 18462 98471 33904 81546
38990 26472 89124 47819 27461 81935 44710 45185 28901 00268
No outro

4730 kHz, 16-03, 0800 UTC**4650 kHz, 16-03, 0900 UTC**

523 130 130 45 45 = =

35567 27654 19034 67894 90120 56230 43560 12765 90344 16754
98456 20345 50876 13456 81256 45789 12474 90356 67230 91678
43892 57145 96234 10567 82389 56438 80156 47823 95451 30457
60789 40267 76892 40409 57623 20349 73890 12676 84658 39812
63092 32461 39657 40934 48713
= = 130 130 45 45 00000

18041 kHz, 18-03, 0500 UTC

952 830 830 52 52 = =

38441 37654 86063 61149 83350 61055 72249 12493 14683 53574
28093 27770 20496 75395 28999 31451 35335 35156 72727 60159
56437 64725 22010 19515 46755 28055 17579 93047 98228 31308
97551 82839 53754 26441 84090 86588 11279 25433 23289 40798
58463 67340 89221 84753 11346 05381 88082 24999 55451 06215
23373 04982

= = 830 830 52 52 no nulls at the end

18041 kHz, 19-03, 0500 UTC

952 716 716 51 51 = =

16315 52878 25300 92100 57888 12373 70663 07099 17435 51138
60969 97578 47299 01388 84706 18069 55561 55634 40059 12596
02850 94540 92910 98437 89887 68380 02909 90217 46697 86804
91039 31511 59397 96594 47139 26166 95538 52090 00789 86512
13918 07979 04020 40657 69787 89141 99280 66045 51429 17234
71087

= = 716 716 51 51 00000

18041 kHz, 20-03, 0500 UTC

952 840 840 50 50 = =

14064 08737 31279 10995 75196 02265 82670 08888 80157 58756
94569 70555 74280 32790 54387 80696 94208 48377 61168 04426
90008 53282 15912 32657 20815 41010 50280 19377 09954 70161
42118 53002 70475 35839 91226 29001 37029 72789 53832 15981
65027 94970 59181 32414 83036 01239 56701 76196 09318 01829

= = 840 840 50 50 00000

18041 kHz, 22-03, 0500 UTC

952 478 478 50 50 = =

28785 81776 97430 40443 60472 16844 61692 35173 45277 16861
42814 51346 05818 52218 54254 38743 78475 17197 04306 98290
40119 32355 51788 79220 87669 11072 82519 80238 37673 26194
86294 53128 38090 37714 39033 32239 09475 67425 19785 38291
57738 31479 17296 29927 25682 66798 05805 01461 75480 12272

= = 478 478 50 50 00000

4730 kHz, 23-03, 0800 UTC**4650 kHz, 23-03, 0900 UTC**

523 130 130 45 45 = =

34567 47654 19034 67894 90120 56230 43560 12765 90344 16754
98456 20345 60876 13456 81256 45789 12474 90356 67230 91678
43892 57145 96234 10567 82389 56438 80156 47823 95351 30457
60789 40267 76892 40409 57623 20349 73890 12676 84658 39812
63092 32461 39657 40934 48713

= = 130 130 45 45 00000

18041 kHz, 25-03, 0500 UTC

952 301 301 50 50 = =

73720 22636 90885 44758 73552 21251 36231 07753 44383 27268
88402 93010 62499 26083 69279 59412 44729 89034 46460 74515
51693 08356 01788 25928 88404 18945 33955 03092 56921 80394
62383 85406 40746 17706 24552 97646 25639 11133 83975 18597
86555 14599 91016 53849 95373 83103 63711 08696 29121 62590

= = 301 301 50 50 00000

18041 kHz, 26-03, 0500 UTC

952 768 768 50 50 =
 14330 17737 22211 08285 14617 38307 03079 14333 11502 46481
 15329 95655 34404 22040 96314 06292 64827 04024 73832 23173
 52250 38920 50798 88305 18781 72696 09179 47139 44773 47622
 37839 06572 52583 89813 14006 61017 30662 98431 93033 59976
 65164 72485 86156 15553 71264 36168 30917 73342 41372 48664
 = = 768 768 50 50 0000

5463 kHz, 27-03, 1920 UTC

537 899 899 50 50 = =
 28901 36471 58902 78156 38903 47819 46120 56271 44561 89253
 48901 27835 18902 26812 56101 62916 57192 53922 63812 95014
 54629 81402 37822 09461 89365 73099 22185 63982 51834 48158
 76219 46719 39825 20711 45678 26409 18462 98471 33904 81546
 38990 26472 89124 47819 27461 81935 44710 45185 28901 00268
 = 899 899 50 50 00000

4730 kHz, 30-03, 0800 UTC**4650 kHz, 30-03, 0900 UTC**

523 270 270 42 42 = =
 67321 45236 10946 77215 63214 09451 26345 89461 37145 27361
 78451 46234 78456 36245 89045 78341 52390 84672 56347 09563
 78237 45148 56341 90451 26489 36127 90562 18946 37451 63278
 67342 14267 89560 06745 78452 67133 53678 90462 47380 33769
 56241 33781
 = = 270 270 42 42 00000

M21 - Russian Air Defence Forces (Во́йска ПВО Voyska PVO)

4171 kHz, 10-03, 0734 UTC	=991034??8????? =991035??8????? =991036??8????? marker, every minute
8747 kHz, 10-03, 1408 UTC	=99?1709?9????? =99?1710?9????? marker, every minute
3300.5 kHz, 16-03, 1452 UTC	=99?1752?9????? =99?1754?9????? =99?1756?9????? marker, every minute
4391 kHz, 18-03, 1759 UTC	=992056??0????? =992057??0????? =992058??0????? marker, every minute
6828 kHz, 19-03, 0730 UTC	=991030??8????? =991031??8????? =991032??8????? marker, every minute

ID 9 marker

4191.5 kHz, 20-03, 1850 UTC	=992150??8????? =992151??8????? =992152??8????? marker, every minute
6425.5 kHz, 22-03, 1438 UTC	=991738??0????? =991739??0????? =991740??0????? marker, every minute
6425.5 kHz, 24-03, 1445 UTC	=18212466799254 =991755??0????? =18212466792554
5202 kHz, 24-03, 1712 UTC	=992012??8????? =992013??8????? =992014??8????? marker, every minute
4155 kHz, 25-03, 1315 UTC	=91615??8????? =991616??8????? =991617??8????? marker, every minute
6424.5 kHz, 25-03, 1335 UTC	=991637??0????? =991638??0????? =991639??0????? marker, every minute

M23

14100 kHz, 19-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 20-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 21-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 22-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 23-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 24-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 25-03, 1658 UTC 051 (R12) long zero's

14100 kHz, 26-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 27-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 28-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 29-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 30-03, 1658 UTC 051 (R12) long zero's
 14100 kHz, 31-03, 1658 UTC 051 (R12) long zero's

M41 - Russian Air Defence Forces (Во́йска ПВО Voyska PVO)

2189 kHz, 18-03, 1719 UTC

7GME 7GME 722 1959 5043 66292916170000 1836
ABV 722 1959 5043 66292916170000 1836 7GME AR

2189 kHz, 21-03, 1810 UTC, i.p.

72219599317956444165820901927
=19499357955834165712701954
ABV
72219599317956444165820901927
=19499357955834165712701954 YP8R AR

6784.5 kHz, 22-03, 1501 UTC

4RVU 4RVU AR VVV VVV VVV VVV 4RVU 4RVU AR

M89 - Chinese military

3786 kHz, 06-03, 1602 UTC, i.p.

6N3T UN7N 5AN5 N436 UUD5 AR
33 0334 33333333 77S
III = = = = = 6333 3333 3334 374N 6 A74A 67D7 (Cont'd)
W AR AR = 3S S3334333333333333T737373A3. A V
S3333333373333333337T33333EEE
V337V37U337 (Cont'd)

4526 kHz, 15-03, 1226 UTC, i.p.

QSA 2 QSA ? K
R QSA 1 K (1227z) (Both stations on this frequency)
R R IEC .. 2. 4 K (Normally associated with Exercise)
R IEC 56.8 K
R HR .. 8 OK
R HR WK NR 121 K
R HR 7G GA K
R GA K
MSG GA
NR 05. CK 10 32 03.. 1608 RMKS 4480 TO 4484 K
R GA K
R = U3U6A 7A5N 7T6T... (Cont'd)

7891 kHz, 23-03, 1207 UTC

R QSA 2 IEC = KBV. AR K
R QSA 2 = H6.5 AR K (Both stations on this frequency)
R K
HR U. GA K
R GA
FFF NR 0531/EX 200. = QE./G. AR
F NR 0531/EX 2005 = BQ3/.G7 AR
F NR 0531/EX 2005 = BQ3/CG7 AR K
R QSL 20.8 QSL 2008 QSL 2008 K
R YR F . K
R HR F K
HR F GA HR F GA K
R GA K
R F/005/EX 2009 = KS1/CD3 AR
F/005/EX 2009 = KS1/CD3 AR
F/005/EX 2009 = KS1/CD3 AR
R QSL 2011 K
R O.. K

R HR WK NR 1.2 K
R HR WK NR 310 K
SK SK
R NIL SK GB

5201 kHz, 25-03, 0857 UTC

U35D 7U46 N4TN U67N AUNN AN5A ...II =
RPT .. (Other station also on this frequency)
RPT 74W = 3U5D 3U5D 3U5D AR K
OK GA
R 5PT RPT EEEEE P =
N645 456N T37T N35T (Cont'd) AR K
RPT 18W
R RPT 1.W = 7N4U 7N4U AR K
RPT 18W
R RPT 18W = UTTU UTTU AR K (Cont'd to ask for repeats)
PSE MSG NR 0022/. 6 CK 500 77 54?
MSG NR 0022/C6 CK 500 ZZ 0325 1628 RMKS 4131 TO 4004 III
OK QSL ..K 1708 K K
R ... K 2 K K
R HR WK NR ..
HR WK NR ISK UIII
HR WK NR ISK K QQ 4 K K K
R R SK SK SK SK SK
SK SK

M95

5801//10180 kHz, 01-03, 0449 UTC

V DKG6 (x3) DE 3A7D (x2)
VVV HR 7G GA
NR 001/CCK CK 299 21 04 (Appears that message numbers revert back to 001 at the beginning of the month for this family)
NR 001/CCK CK 299 21 0301 1250 RMKS 6457 TO 6453 6866 =
36T5 3767 N35N 47DN 5N5A 5D65 3AUN 73D7 6N6U TTA5 5AAN 57T5 (Cont'd)
AR QSL ? HR WK NR 050
V DKG6 (x3) DE 3A7D (x2)

4243 kHz, 03-03, 1151 UTC, M95: CW i.p.

4243 kHz, 03-03, 1212 UTC: switched to V26

A HR 7G GA A HR 7G GA
NR 06 CK 180 35 0303 1540 =
UTU TT3 3U6 3A4 TTU 773 354 N3D 353 (Cont'd) AR
A HR 7G GA
NR 071 CK 19 35 0303 1635 =
UT5 TT3 3U6 3A4 TTA TTU TT3 773 353 .3D
35U 36U 4AA 346 N3D 4AN 445 4D4 3DA AR
A HR UP SB WK AR

4243 kHz, 05-03, 1149 UTC: M95

4243 kHz, 05-03, 1222 UTC: switched to V26

V HR 7G TO YR PSE CY
NR 014 CK 47 35 0305 1530 =
5AA UTT TT5 3U6 3A4 TTU TT3 773 354 75D
373 N3D 353 4AA 346 N3D 4TA 445 34T N3U
446 34U N3U 447 3DA N3D 3DU N3D 3D3 4D3
TT4 773 353 N3D 35U 4AA 346 N3D 4TA 445
34T N3U 446 3DA N3D 3DU 4D3 AR
7G AGN
NR 014 CK 47 35 0305 1530 = (Repeats message) AR
HR 7G GA

NR 10 CK 200 35 0305 1559 =
UTU TT5 3U6 3A4 7TU 7TA NU6 7T5 777 33U (Cont'd) AR
NR 10 CK 200 35 0305 1559 = (Repeats message) AR
A HR 7G GA
NR 077 CK 30 35 0305 1617 =
UT5 TT5 3U6 3A4 TTA TTU TT3 773 357 37U
36U 4AD 445 346 N3D 4TA 446 34T 7ND N34
447 4D4 33U N3D 4D6 3DA DUU DND N34 3D3 AR
A HR UP SB WK

4243 kHz, 08-03, 1142 UTC, Q26: 4+4 QPSK 75/3000 LSB. Messages

4243 kHz, 08-03, 1142 UTC, M95: CW

V HR MSG TO YR PSE CY
NR 020 CK 17 35 0308 1528 =
5AA UTT TTN 3U6 3A4 TTU TT3 TT4 773 353
N3D 354 373 4TN 445 3DA 4D3 AR
MSG AGN
NR 020 CK 17 35 0308 1528 = (Repeats message) AR
A HR MSG GA
NR 16 CK 145 35 0308 1600 =
UTU TTD 3U6 3A4 TTU 773 353 N3D 354 4AA (Cont'd) AR
7G AGN
NR 16 CK 145 35 0308 1600 = (Repeats message) AR
A HR MSG
NR 086 CK 22 35 0308 1634 =
UT5 TTD 3U6 3A4 TTA TTU TT3 773 353 4AA
435 TTA 773 446 467 4D6 N3D 4D3 3DA TTA 773 3DU AR
7G AGN
NR 086 CK 22 35 0308 1634 = (Repeats message) AR
A HR UP SB WK

4364//8073 kHz, 08-03, 1130 UTC. V26: USB. Callup in Chinese. Male operator

4364//8073 kHz, 08-03, 1131 UTC, Q26: 4+4 QPSK 75/3000 LSB. Messages

4364//8073 kHz, 08-03, 1138 UTC, M95: CW

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0190 CK 267 35 0308 1614 =
TTD 3U6 3AN 3U7 TAU 773 TA7 773 354 373 (Cont'd)

4243 kHz, 11-03, 1142 UTC, Q26: 4+4 QPSK 75/3000 LSB

4243 kHz, 11-03, 1150 UTC, M95: Cw

VV HR MSG TO YR PSE CY
NR 026 CK 46 35 0311 1528 =
5AA UTT TAA 3U6 3A4 TTU TT3 773 353 N3D
35U 4AN 445 345 N3D 4TA 446 33N N3U 447
3DA N3D 3DU N3D 3D3 4DU N3D 4N6 TT4 773
35A U4T 353 4AA 445 346 N3D 4TA 446 467
3DA N3D 3D3 4D3 N3D 4D6 AR
MSG AGN
NR 026 CK 46 35 0311 1528 = (Repeats message) AR
A HR MSG GA
NR 095 CK 29 35 0311 1613 =
UT5 TAA 3U6 3A4 TTA TTU TT3 773 35U 36U
4AN 435 336 N3D 4UT 447 46D 33U 33N DA5
N34 446 467 4D4 N3D 4D6 3DA N3D 3D4 AR
MSG AGN
NR 095 CK 29 35 0311 1613 = (Repeats message) AR
A HR 7G GA
NR 22 CK 243 35 0311 1624 =
UTU TAA 3U6 3A4 7TU 7TA 7TN 73U 7UT TTU 773 (Cont'd)

4364//8073 kHz, 11-03, 1130 UTC, Q26: 4+4 QPSK 75/3000 LSB

4364//8073 kHz, 11-03, 1137 UTC, M95: CW

V BNGC (x3) DE XSV85 (x2)

HR MSG GA PSE CY

NR 0196 CK 2.. 35 0311 1636 =

TAA 3U6 3U7 TAA 773 TA7 773 (Cont'd)

4243 kHz, 11-03, 1142 UTC, Q26: 4+4 QPSK 75/3000 LSB

4243 kHz, 11-03, 1146 UTC, M95: CW

4243 kHz, 11-03, 1200 UTC, V26: USB. Messages in Chinese. Female operator

VV HR MSG TO YR PSE CY

NR 038 CK 34 35 0312 1520 =

.AA UTT TAU 3U6 3A5 TTU TT4 773 (Cont'd) AR

A HR MSG GA

NR 098 CK 14 35 0312 1622 =

UT5 TAU 3U6 4A3 (Cont'd) AR

A HR 7G GA

NR 24 CK 178 35 0312 1626 =

UTU TAU 3U6 3A4 TTU 773 35A U4T 353 (Cont'd)

AR (Normally repeats each messages, but did not do that today)

A HR UP SB WK

4364 kHz, 12-03, 0001 UTC, V26: USB. Call up in Chinese. Male operator

4364 kHz, 12-03, 0002 UTC, Q26: 4+4 QPSK 75/3000 LSB

4364 kHz, 12-03, 0005 UTC, M95: CW

05 05 05 (0005z) (Very unusual to send 05 before callsign and message)

V BNGC (x3) DE XSV85 (x2)

HR MSG PSE CY

NR 0197 CK 100 35 0312 0657 =

TUU TAU 3U4 3U4 3A4 EEE FM 01W GA =

TAU 3U4 3A4 TAU 773 TA7 773 356 35N 4T3 NN3 (Cont'd) AR

MSG AGN

NR 0197 CK 100 35 0312 0657 = (Repeats message)

4364//8073 kHz, 12-03, 1132 UTC, Q26: 4+4 QPSK 75/3000 LSB

4364//8073 kHz, 12-03, 1139 UTC, M95: CW

V BNGC (x3) DE XSV85 (x2)

HR 7G GA PSE CY

NR 0198 CK 284 35 0312 1556 =

TAU 3U6 3AN 3U7 TAU 773 35U 4T3 NN3 445 (Cont'd)

4243 kHz, 17-03, 1144 UTC, Q26: 4+4 QPSK 75/3000 LSB. Messages

4243 kHz, 17-03, 1149 UTC, M95: CW

VV HR MSG TO YR PSE CY

NR 038 CK 30 35 0317 1516 =

5AA UTT TA7 3U6 3A4 TTU TT3 773 35A N3D

353 4TT 445 345 N3U 446 467 3DA N3D 3DU

4D6 TT4 773 35A T3D 353 4TN 445 3DA 4D6 AR

7G AGN

NR 038 CK 30 35 0317 1516 = (Repeats message) AR

A HR MSG GA

NR 014 CK 18 35 0317 1613 =

UT5 TA7 3U6 3A4 TTA TTU TT3 773 35A U4T

354 4AA 446 336 N3U 467 4D6 3DU AR

7G AGN

NR 014 CK 18 35 0317 1613 = (Repeats message) AR

A HR MSG GA

NR 34 CK 189 35 0317 1630 =

UTU TA7 3U6 3A4 TTU 773 353 N3D 354 4TN (Cont'd)

4364//8073 kHz, 17-03, 1137 UTC

V BNGC (x3) DE XSV85 (x2)

HR 7G GA PSE CY

NR 0216 CK 162 35 03A7 A654 =

TA7 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 (Cont'd)

4243 kHz, 22-03, 1147 UTC, Q26; 4+4 QPSK 75/3000 LSB. Messages

4243 kHz, 23-03, 1150 UTC, M95: CW

VVV HR 7G TO YR PSE CY

NR 048 CK 55 35 0322 1531 =

5AA UTT TUU 3U6 3A4 TTU 773 353 U4T (Cont'd) AR

7G AGN

NR 048 CK 55 35 0322 1531 = (Repeats message) AR

A HR 7G GA

NR 035 CK 19 35 0322 1612 =

UT5 TUU 3U6 3A4 TTA TTU TT3 773 356 4AA

446 346 N3D 4UT 447 4D6 3DA N3D 3D4 AR

7G AGN

NR 035 CK 1935 0322 1612 = (Repeats message) AR

A HR 7G GA

NR 44 CK 204 35 0322 1616 =

UTU TUA ..D TUU 3U6 3A4 TU. 773 353 N3D (Cont'd)

4364//8073 kHz, 23-03, 1135 UTC, Q26: 4+4 QPSK 75/3000 LSB. Messages

4364//8073 kHz, 23-03, 1142 UTC, M95: CW

V BNGC (x3) DE XSV85 (x2)

HR 7G GA PSE CY

NR 0228 CK 409 35 0322 1606 = =

TUU 3U6 3AN 3U7 TAU 773 357 373 4T3 NN3 (Cont'd)

4243 kHz, 23-03, 1146 UTC, Q26: 4+4 QPSK 75/3000 LSB

4243 kHz, 23-03, 1148 UTC, M95: CW

VVV HR MSG TO YR PSE CY

NR 01 CK 26 49 0323 1830 =

766 67D ND5 A6D 66T DD6 D7T DD3 37U N73

5U6 3DT DD3 3DU D66 N63 7A5 67T 5U5 7TU

D43 N6D 63A 67A DD N33 AR

MSG AGN

NR 01 CK 26 49 0323 1830 = (Repeats message) AR

A HR 7G GA

NR 050 CK 49 35 0323 1520 =

5AA UTT TU3 3U6 3A4 TTU 773 355 4A5 345 (Cont'd)

AR

7G AGN

NR 050 CK 49 35 0323 1520 = (Repeats message) AR

A HR 7G GA

NR 46 CK 174 35 0323 1622 =

UTU TU3 3U6 3A4 TTU 773 35A U4T 353 (Cont'd)

4364//8073 kHz, 23-03, 1132 UTC, Q26: 4+4 QPSK 75/3000 LSB

4364//8073 kHz, 23-03, 1140 UTC, M95: CW

V BNGC (x3) DE XSV85 (x2)

HR MSGS GA PSE CY

NR 0232 CK 32 35 0323 1631 =

TT3 N5U TU3 N53 TAD N54 7TT TT5 746 7T5

77T .N3 7T7 TAU 773 TA7 773 TAD 773 TAN

773 TUT 773 TU4 TU5 773 7AN 7AD N4J AR

A HR MSG GA

NR 0233 CK 280 35 0323 1700 =

TU. 3U 63AN 3U7 TAU 773 357 (Cont'd)

Note: Sending Q26 at the same time as M95

4243 kHz, 25-03, 1148 UTC, Q26: 4+4 QPSK 75/3000 LSB

4243 kHz, 25-03, 1148 UTC, M95: CW

V HR MSG TO YR PSE CY

NR 01 CK 26 49 0323 1830 =

766 67D ND5 A6D 66T DD6 D7T DD3 37U N73

N73 .U6 3DT D33 3DU D66 N63 7A5

67T 5U5 7TU D43 N63 63A 67A DUD N33 AR

7G AGN

NR 01 CK 26 49 0323 1830 = (Repeats message) AR

A HR MSG GA

NR 054 CK 29 35 0325 1531 =

5AA UTT TU5 3U6 3A4 TTU 773 355 4TA 445

34U N3D 4T 446 3DA N3D 3DU 4DU TT3 TT4

773 355 4TN 446 NAT 4TA 445 3DU 4DU AR

7G AGN

NR 054 CK 29 35 0325 1531 = (Repeats message)

AR

A HR MSG GA

NR 054 CK 145 35 0325 1536 =

UTU TU5 3U6 3A4 TTU 773 35A U4T 353 4AA (Cont'd)

4364//8073 kHz, 25-03, 1139 UTC

V BNGC (x3) DE XSV85 (x2)

HR MSGS GA PSE CY

NR 0240 CK 198 35 0325 1709 =

TU5 3U6 3AN 3U7 TAU 773 357 373 4T3 (Cont'd)

5801/10810 kHz, 25-03, 0834 UTC

V DKG6 (x3) DE 3A7D (x2)

VVV 7G GA NR 0 EEEE

NR 093/CCK CK 199 21 0325 1640 RMKS 6457 TO 6487 =

.U6A 43TA .3TA 46UT AUTU 63DN 5UD6 TU5A T575 4547 UA45 (Cont'd)

4243 kHz, 26-03, 1142 UTC, Q26: 4+4 QPSK 75/3000 LSB

4243 kHz, 26-03, 1147 UTC, M95: CW

V HR MSG TO YR PSE CY

NR 055 CK 64 35 0326 1531 =

5AA UTT TU6 3U6 3A4 TTU 773 35A (Cont'd)

AR MSG AGN

NR 056 CK 64 35 0326 A531 = (Repeats message)

AR A HR 7G GA

NR 52 CK 174 35 0326 1628 =

UTU TU6 3U6 3A4 TTU 773 353 4TN 336 N3D (Cont'd)

4364//8073 kHz, 26-03, 1139 UTC

V BNGC DE XSV85

NR 0244 CK 150 35 0326 1509 =

TU6 3U6 3AN 3U7 TAU 773 356 35N 4T3 NN3 (Cont'd)

4243 kHz, 29-03, 1152 UTCi

7G AGN (IP – 1152z)

NR 062 CK 46 35 0329 1553 =

5AA UTT TUN 3U6 7TA N44 3A4 TTU TT3 773 (Cont'd) AR

A HR 7G GA

NR 058 CK 24 35 0329 1617 =

UT5 TUN 3U6 3A4 TTA TTU TT3 773 357 37U

4UT 445 346 N3U 447 46D 33U 33N 44D 46N

4D6 3DA N3D 3D4 AR (1157z)

7G AGN

NR 058 CK 24 35 0329 1617 = (Repeats message) AR

A HR 7G GA
 NR 059 CK 18 35 0329 1617 =
 UT5 TUN 3U6 7TA TTA TTU TT3 773 4UT 445
 346 N3U 447 46. 33U 33N 44D 46N AR
 7G AGN
 NR 059 CK 18 35 0329 1617 = (Repeats message) AR
 A HR 7G GA
 NR 58 CK 226 35 0329 1646 =
 UTU TU. 3U6 3A4 7TU 7TA NU6 7T5 777 73U 33A (Cont'd)

4364//8073 kHz, 29-03, 1145 UTC, Q26: 4+4 QPSK 75/3000 LSB
4364//8073 kHz, 29-03, 1148 UTC, M95: Cw
 V BNGC (x3) DE XSV85 (x2)
 HR MSGS GA PSE CY
 NR 0251 CK 265 35 0329 1554 =
 TUN 3U6 3AN 3U7 TAU 773 TA7 773 457 35N (Cont'd)

UM03 – Chinese X2M net

4553 kHz, 06-03, 1240 UTC, i.p.
 LACRU PEGWY QFHLU JDSMB NEWFO ... AR ZNN W
 .. OK (Other station also on this frequency)
 QSA 2
 OK
 VA

DIGITAL MODES

HM01 - Dirección General de Inteligencia

HM01 RDFT file log by MDK2

Date (DDMMYYYY):	Numbers:	File name or repeat:	Frequency (kHz) and time(UTC):
01/03/2019	18253	50631825.f1c	11435 1600
	65311	74016531.txt	
	55104	04445510.txt	
	83886	22748388.txt	
	28556	76652855.txt	
	23037	47352303.txt	

HM01 has been transmitting these files and number sets every day since 22 February. There were no new sets or files sent any time in March 2019. Please see Numbers & Oddities #257 for more details about these files including a link where they may be downloaded. HM01 repeated all number sets and files throughout the month of March 2019. The date, time, and frequency of each observation follows.

Date	Freq. and time	12/03/2019	11435 1600	23/03/2019	11530 1700
02/03/2019	11435 1600	13/03/2019	11435 1600	24/03/2019	11635 1800
03/03/2019	11435 1600	14/03/2019	16180 2100	25/03/2019	11435 1600
04/03/2019	11435 1600	15/03/2019	11435 1600	26/03/2019	11635 1800
05/03/2019	11435 1600	16/03/2019	16180 2100	27/03/2019	11435 1600
06/03/2019	11435 1600	17/03/2019	11435 1600	28/03/2019	17480 2200
07/03/2019	11435 1600	18/03/2019	11435 1600	29/03/2019	11435 1600
08/03/2019	11435 1600	19/03/2019	11435 1600	30/03/2019	9330 0700
09/03/2019	11435 1600	20/03/2019	11435 1600	31/03/2019	11435 1600
10/03/2019	11435 1500*	21/03/2019	11435 1600		
11/03/2019	11435 1600	22/03/2019	11435 1600		

* 10 MAR was the first day of Daylight Savings Time in North America. 1500 UTC corresponded to 11:00 am Eastern Daylight Time, just as 1600 corresponded to 11:00 am Eastern Standard Time. Apparently HM01 was on local time rather than UTC. They got that sorted out by 1700, but only after the full broadcast had occurred on 11435 for the 1500 UTC hour and on 11530 for the 1600 UTC hour. There was a carrier up briefly on 11635 just before 1700 UTC, but it QSY'd back to 11530 and repeated the broadcast at its usual 1700z time slot.

File Reference

Sort by file name

File Name:	Number group:	Date first logged (DDMMYYYY):
04445510.txt	5510#	18/02/2019
22748388.txt	8388#	18/02/2019
47352303.txt	2303#	18/02/2019
50631825.f1c	1825#	19/02/2019
74016531.txt	6531#	21/02/2019
76652855.txt	2855#	18/02/2019

Sort by Date

Date (DDMMYYYY):	File name or repeat:	Numbers:
18/02/2019	04445510.txt	5510#
18/02/2019	22748388.txt	8388#
18/02/2019	76652855.txt	2855#
18/02/2019	47352303.txt	2303#
19/02/2019	50631825.f1c	1825#
21/02/2019	74016531.txt	6531#

Sort by number group

Number group:	file name:	Date:
1825#	50631825.f1c	19/02/2019
2303#	47352303.txt	18/02/2019
2855#	76652855.txt	18/02/2019
5510#	04445510.txt	18/02/2019
6531#	74016531.txt	21/02/2019
8388#	22748388.txt	18/02/2019

11435 kHz, 02-03, 1600 UTC Radio Habana Cuba then into RDFT.

F01, F06, F06a, M42, M42a, M42b, X06 - Russian Government & Intelligence

One of the Russian experimental modes seems to have a schedule these days. The MFSK-16 mode has been heard on Sunday and Tuesday evenings at 2000, 2010, 2020, 2030, 2040, 2050 UTC.

Frequencies in time order:

November 2018: 6776, 5876, 5376, 5176, 4876, 4576 kHz

December 2018: 5458, 5358, 5158, 4958, 4558, 4458 kHz

January: 7771, ???, 6771, 5771, 5171, 4771 kHz

February: 7967, 7567, 6967, 6767, 5867, 4867 kHz

March: 9181, 7881, 6881, 5881, 5181, 4581 kHz

Daylight Saving Times: 1900, 1910, 1920, 1930, 1940, 1950 UTC

Frequencies: 13447, 12147, 11547, 10447, 9347, 8147 kHz

For the time being these transmissions are logged as M42.

Thanks to the Priyom team for this information.

63935 22161 88383 19694 25899 73479 60595 99371 20032 36044
98838 47292 91099 88442 44860 91205 47938 00320 49201 70406
95015 08931 47726 87152 33232 41892 69116 12849 34641 09558
90501 34978 20797 15459 83426 55665 99382 58254 17333 77864
38848 23619 12756 40062 85707 89509 61407 85464 54208 93248
55347 76590 43045 33864 92418 91208 58823 08115 50147 60570
50931 03651 45276 35854 87543 xxx49 21143 93775 27411 34989
30067 17296 67146 82523 02950 12361 68683 86025 23266 46617
96603 75107 47642 21039 20003 91426 40196 10397 58610 37994
12844 33517 77824 73119 88740 39262 62359 97410 31063 19170
23205 07287 04304 82693 17559 13429 60277 55972 86450 47608
66021 90080 39712 06333 15772 89679 43015 04750 94220 98025
86635 39234 83220 99256 40648 82109 29135 23901 26236

11100 30109 78496 04050 05003
QIKKB RUFTE ICWQE FXRIX DWKOO BAKLW PJTPY QWFJI ISNIL HDNGD
RUOPU HTJCA TDEJW QIXCE OMTES DHGMI GLYBY TMMJH VXCNS BCREV
FUAJV LOJCT QFIUM AEXLC JNFOD GTBTI WGQMP PFLTQ YOSGH QFLUQ
CAMQG DCETK NONCY PSUGX EDRBY ACXSF RPEBG ACMQP AQFOU RRODN
BIVWL DIJYT HKQPW YVTEE BPTRY YXLHY VGNCX MYHTV MQUGJ MVNKY
VMBQC YGRXY JKNLI JSKMQ BHKKS ISDYJ PLVKU VAIQY KCNQY NXEQQ
SVVBV GHFNN PFDXX PEYKC EJNXG KNWLI IBBDU WBPBW QUNNF WXLJH
BAAUF QFPWT WNLBE IICQI CLWBV YAPWB GPPHP MYRYE CNYHW VJUUI
MNVDD NCYHI BECKQ QSAXT FCQIF WQHOO OSQRH LHOFA TASHS SQEJE
YSNLJ IUMVB AFRXP PSEGN LMULI QMCWL UHKPQ MOSVC UKPTE YXKGE
XVNSN INDHR QNNUK QELWO BMXHR AAJOO KNGDO CWCAH KIAWJ QQIVP
HWAIT LEGYB RUPPF XATOB RLVGB LKBMI IKGRB CCIKH TMTIQ WRARB
AIPRX KOPYL YMJIO WFBQY JPBML MFDTC YBKWW PPIMF PSRWS XLKJJ
NFKGG LUCLE JBXU NWRIY JOGCX VCWMB EXTNN TUBAG FHNVB TWAA
ACWKY APTIW QRYNS FFJXO PJYRG LJNEI WKEUL YEJHK DTJAW USDJU
USJEX XPYEG YFFKS XLWMI FQIKI TVFJX NKLOI TUTRO QVIOV GGWCG
XIEMT RTPOX IXRDW STOAD MMLFB JVUSP NQOGR IGSED LDLDJ KWGHH
PEDBM ERIJT RQTBV FVOQP NWSRQ IQIFQ SAIGS RGNPB PLEBU ATRLA
UNDLJ IDWAO KUFCL WLKVB XYDVS NJKAN WLOSR GCSCA OHBEB IYVIC
FKMIK TMJFO XUEBW OJSKE WNXJM NXRNC PBDHX DFQYK WKAAB CRMPH
PYEXE DBHSP ISJMF GQIIIO JCWEC XUDUA IFSEM NWOWD PSHFW DRVWP
VLGIP OERKU HQUUO PSFGF CHADA AIWJQ MOVUT UHUOS NDADS IRCUS
VEOLP EOYVR JCFOP XOPCN XVIDY EEXKB WIXEF RKNVB TNDPN UNSVM
AVACS EEONU VYDED LSPPF HJHPP NPIFX HTCHY YGUOG SBWYX XPVTF
SOAIR BBFMY IVBIB VFEDR HDXQC DVDDV WAMIS OFCEX YMSNX QQYHU
ZCUGU RYGMV XKKWX KVTEC BWNJJ UCTMP FIPIO XHBOC SGRDS GJEJA
VMDIL XKDIH CCKU MHEXS WDKOS EYXIG YLQTG IVJCR WLTFJ EKXMH
KNPQR FUHGF QRXLU NRANS TJNAW GTAUI GRYGD XSEEU NVKTG QTJBK
BUBRP IPXGQ XQSUE STWDX QORBY DLUVA JNUGP AWJXL BDNCB EYQMJ
UMODL KXSTY LIBIW PGIRP UKRVV XIITQ YBYHT MMDFW DIAEX QGDHX
WEDVX NVTY HLJVJ KPHIQ XGYGW NEKMA THVRQ JUEDJ MWROI RMGXT
JBNSL KNJJK AEAML LWXOF URRXM NMCVC DRATR PJPKW MKBMA PAHLY
VGVWP WOELO LUDKJ SINEU YHXDN NIFNO RJLKS IMWIA XXRAH WPHQK
XHRUL FETQM JHXL L AOPMX KICUB AORQH FMHLC TEHLM SJMAI BFRDM
XDXFU PDVKU LYQLR XQRQX PVOLI WYKKN VXB TJ XYPSE TASC DBOXB
URSSF BWQVG WTUDE DPSFY TLEOE URUBJ MKYAM XXFPO TRUFR MNOXV
XOGUN FHTBC YOLV IMBBP NNNIP SVOMO XLIGK BJLPB AVQQN XOCAN
CSDXS HARGF KQSOI MOSTG JFOIR FFQOO EOSRL WWBWS NIOKS KQUEC
FFVFD DIDLN TDUIS IBALO NVYFI OSVSJ VAUKD NGBIL XOLXM RBDK
THKIL EDWAY WIJEB PGBVK EJFUG FPJSK WWYCG VNWJF EQBNO XDCD
YSBLY JGDHY BBTUE HCIJC JLETA TOHMU KNDVP GWLXU LVHSG BIRFB
UVQQL DINLB JEXPW AIRQJ AHUGY UMEJM DQIJP USPIG PPKEF YGSGU
XNVOS FSHDE AJSCB CRFGV ACLDR NRVJV YWMIY PKQIA HTXNB QROKY
NOGEP NXISU SPWJA ILJWG SJQEQ MLWQQ FLOMQ IUHHL NYCMX YGCQR
UNYNK FQJMT YJQCQ CNHWS LEHVJ ISNAI IJSWF JHGFQ DNHYE HOYCN
XTPLY JWILE AUSGX NULMH NGLUY VJQKR EKADN TNBDY BDCJK BJKHC
TVTOV LXRTT RPMEN ELGSR XCBXA WIKWL FEIBW NCSSH YJIFK TVXDN
GRIVO GPKUY BGJLX QUKAG RRNGP VECGP UVTUP SKYTY QJEKQ HXVGY
VYPEA GGURU LNIBQ GLNBF HTWDI EDTBN XKCUA DCHIJ SJIBX NHTPL
ZOFCAE SKTXR QEKLK QCGIK HTTCF QMFYN FWROA YIPAD KNNSD

CW: QRU75 QBN K

11100 30109 79413 04049 05003 + 5FGs and 11100 30109 78496 04050 05003 + 5LGs QSX 13538 kHz

Messages unreadable. QSX 14722 kHz

Russian intel Moscow wkg URG: Russian embassy New Delhi IND. QSY to 14985 kHz at 0806 UTC

5FGs and 11100 10053 45678 04004 02509 + 5LGs. Many repeats. QSX 16025 kHz

11100 10053 51840 04003 02503 + 5FGs and 11100 10053 04981 04004 02503 + 5LGs. Many repeats. QSX 14985 kHz

UDD: Russian intel Moscow wkg RBD: Russian intel Chita

11100 10129 32063 13045 03003 + 5FGs. QSX 10980 kHz

11100 10129 12457 13032 02509 + 5FGs. QSX 9950 kHz

UZR UZR UZR 2/600 UZR UZR UZR 2/600 UZR UZR UZR 2/600

UR QRZ QDG 2 QSA 4

39

64112 25315 51743 55607 06789 13364 81230 28836 99857 03062
00223 19973 54680 64186 97431 46670 05011 67916 15840 34268
04665 93956 82065 31358 49123 57286 33871 16082 50746 02977
88001 04081 22285 42518 15549 94045 48387 30078 17016 11808
49773 02147 14279 38888 69778 28992 01630 36476 37949 51378
23093 00737 90365 00964 68192 10419 51408 27839 03367 52674
06620 83623 81217 38045 21379 33568 94774 40544 85061 96100
68971 23771 85369 33252 06509 39004 42536 40393 30308 06198
58067 08728 89730 13832 57734 58981 22753 98542 33485 69714
91288 90479 13969 48700 31841 35318 18365 20814 88676 28877
73196 30852 21703 25261 96821 84746 06246 04487 81288 77575
66900 10512 26242 81848 12663 95611 04561 94463 65510 32047
64433 65809 99626 76947 97538 59427 33464 01357 28026 15670
41821 19384 01990 17818 80130 78374 82114 84057 38135 96066
77188 33791 65154 55655 61161 01685 34115 94696 61447 97923
36540 48810 21145 38085 25682 36088 64884 91082 49989 93179
22956 18613 44090 98967 93448 04543 69485 46771 47046 97678
22136 51036 04197 16349 49131 99428 39329 88243 41624 86270
91809 23940 96231 88271 88324 47564 62071 68475 06374 33012
15635 19369 33563 19181 30676 81091 02397 02636 35313 95672
05228 31162 73520 83250 19088 46625 13202 51194 95056 50595
68037 72077 91876 91153 25284 91435 58490 94331 96720 51245
95188 88620 34928 40068 48068 95974 82083 05784 16468 87769
43469 91865 78083 29126 02870 83127 61450 60057 22053

11100 90138 36987 18008 03009
36419 15454 90545 90624 64228 73915 33743 30094 24213 13106
56396 28726 03471 36259 88421 79817 62108 87051 38903 57290
87193 63101 82324 40564 85862 25257 23793 34450 53525 82389
41711 76244 78112 56344 31323 47226 66285 56769 97582 30731
02560 20488 70768 83991 77284 95108 43299 15944 44392 71566
51167 88173 94884 95269 48449 81189 56970 10557 48310 93224
58802 18134 28963 63740 14753 50189 27987 38826 21160 92875
73483 20679 72480 10839 25472 68354 33796 53484 25983 41977
30601 47676 81274 07588 41814 06539 24627 44834 06951 09069
33124 24670 83391 30230 96894 49266 14687 26225 64215 71319
95833 04634 10946 34935 46463 34097 07702 05291 27876 73239
83236 79241 64862 23524 07436 94086 58242 35714 42388 76654
99073 24637 34960 99917 20447 71935 49303 39304 47824 21500
62751 45914 33848 97256 73530 78810 88558 98013 93715 63585
40959 49038 25889 69375 92867 15065 46923 21533 50994 04416
47327 92115 48169 18919 99605 35409 89680 29323 54046 60647
85636 80873 85399 59131 55308 58769 38863 27927 14379 68154
48832 57338 81038 08361 28830 74330 61871 46065 56072 59104
03455 17073 99099 76995 20633 11387 61913 92900 37371 21276
43047 60404 01759 57020 33024 02805 56882 60008 98629 28219
91099 67894 27435 45960 82674 11495 31011 76369 20687 481054
Z0281 71291 75573 60930 71423 87387 34420 79320 45797 79460
36356 99492 12289 05994 68988 10426 45557 64080 11799 54623
58581 95935 37458 78422 72967 34177 06986 51546 35449 78067
19695 60576 04010 17896 03862 06045 52079 49693 59050 57818
64231 47468 86039 48482 21817 85147 65285 09389 01988 25417
69851 79077 38528 17635 23755 38741 17938 72023 41656 54428
09221 02313 10836 30684 50782 54032 01393 05283 42911 60630
15605 39786 19256 94616 12385 85564 95741 05911 67771 30020
20373 85 57395 52646 72345 50191 71853 45662 83916

UR QRZ QDG 2 QSA 4
UR QRZ QDG 2 QSA 4
QRU QRU SK SK

M42b – CW and FSK 50/500

6837 kHz, 18-03, 1436 UTC ZE4K wkg P8RK
6817 kHz, 18-03, 1441 UTC ZE4K wkg P8RK
6807 kHz, 18-03, 1444 UTC ZE4K wkg P8RK
9274 kHz, 19-03, 0730 UTC K4MT wkg NT9P
5833 kHz, 22-03, 0620 UTC BFRW wkg WL4I (QSX 5328 kHz)

F01 – FSK 200/500

10467/8094/6779 kHz, 06-03, 1940/1950/2000 UTC Null message:)576 100000+++++++

F06 – FSK 200/1000

Link 00000

9064//18669 kHz, 02-03, 1400 UTC. 18669 kHz is probably a spurious frequency

11100 00000 01895 01090 02239
44388 99750 51799 18269 52922 22938 47167 66537 16881 92156
76344 01175 00479 76201 93044 04452 02768 52213 71224 62442
10481 91216 26541 31036 66135 96108 00009 22997 47005 95514
21057 91990 29003 81965 92165 24518 90119 47833 62276 75701
33098 17450 81149 09859 32033 98861 51880 31790 32583 03644
23735 19734 60490 08228 92510 95918 18076 55160 00605 95644
73425 17747 53976 20846 71924 76511 98186 89057 24856 80907
20717 13731 54728 94723 71734 76837 02034 48617 20513 79689
23116 48209 89670 82925 33843 11195 34447 71594 78764 31879
59167 06268 30448 96609 88115 46135 48676 98510 32983 54998
54193 24979 24088 26122 96696 16368 97550 86864 21748 19304
55617 69035 66296 83065 42312 55910 37509 72466 01606 41839
54586 95686 10303 65402 58248 70470 02809 02027 17596 77152
29991 27015 89008 71930 19301 84931 06795 58835 28361 26256
10256 43820 09186 97278 36868 19430 25249 94143 36272 53459
88555 16993 84736 80066 08931 85144 04812 16758 72702 99248
19834 55684 92957 61346 97992 02708 98581 88779 65625 62640
54240 82889 94448 94126 28519 38429 92387 82582 52385 04647
52726 04648 35175 33957 41226 82566 30284 79155 25935 51963
67754 25096 79352 91419 95943 65791 07645 87316 99464 62851
86604 32361 85577 46206 09031 81244 56232 43061 73223 11869
07939 46000 67279 65570 26659 56197 28876 64794 69905 62655
85231 90221 00000

18669 kHz, 09-03, 1400 UTC. Spurious transmission

9064/6792/4565 kHz, 09-03, 1400/1410/1420 UTC

11100 00000 61349 07091 02159
84823 89183 54666 98274 11173 44410 51621 04238 32401 34854
61588 23968 86283 09234 02354 92364 52176 63614 25712 00694
22905 19629 02295 89499 13090 84819 17055 94745 33573 43549
17569 58108 86654 51921 82372 37370 61811 35133 01492 77850
36597 10714 86374 30811 12403 86075 51402 29761 39764 03822
34176 60622 12917 33243 46751 86673 38266 31445 75020 14218
06480 22542 68434 09909 22876 68350 87230 05678 75799 29034
99380 52196 47678 37113 44424 06805 98438 33305 06388 66860
75970 37608 62975 84425 33337 54082 03208 23246 57405 32755
30722 43947 38589 37100 94882 28399 36395 90510 16932 79163
20460 00221 03331 54996 91755 82105 63509 28305 13667 34795
74182 75527 07609 36542 57456 36350 92896 63285 64866 02720
75526 51335 84585 23573 15582 53131 13945 36223 27933 59502
64483 60353 95926 86865 91700 15536 02753 52808 66712 48229
10174 88482 31972 79185 39305 61257 08281 07203 33133 06056

45240 30161 05458 88831 32352 69291 05954 50602 12962 07588
56023 05489 68201 78336 35147 91202 63159 64661 22405 95400
72429 96057 22861 06369 27254 52824 33499 61447 51425 14355
28401 91657 78153 12199 67842 85955 65073 73864 61009 23543
49585 68263 37009 47697 11717 88765 03880 79527 36687 34784
00261 95124 94369 77831 69439 14514 77837 22994 10443 75869
68174 01739 85866 91213 00000

9064/6792/4565 kHz, 16-03, 1400/1410/1420 UTC

11611/9425/6957 kHz, 17-03, 1030/1040/1050 UTC

11100 00000 35791 15092 02239
13559 37430 32236 35201 78108 75174 08720 20389 37717 40684
69209 65564 67381 58628 60464 96598 31786 04066 90953 96717
26531 27336 49078 66410 21414 89216 72679 39679 85444 04760
61993 17579 98295 19264 53252 04982 77850 64809 95121 61494
78570 70803 95151 02483 40337 26956 28439 11119 92473 22148
25682 47416 42631 07602 82819 65161 05227 57817 59434 72699
49117 27693 58122 98506 69195 29280 01997 47483 11612 76595
52530 58902 07282 71948 34916 01963 93391 32202 63132 69878
27576 78416 81907 58428 24459 37306 67761 39933 69250 27954
56318 68568 88071 32216 88078 77964 79714 72251 89833 57031
38512 43589 02072 82719 48349 16019 63933 91322 02631 29725
28839 31847 19453 22175 93650 37358 97539 81574 17026 93841
16548 52449 14929 22784 67286 80718 51312 90704 91118 92013
23440 04511 00483 13054 62544 83511 82720 09533 16991 44032
66895 38945 10165 57562 58279 41790 90243 68374 70210 19594
14049 81559 07995 73183 32179 57401 84553 99653 67586 73043
72488 71465 04807 37371 22266 46101 32020 70064 01201 79737
03126 80737 32925 43348 12032 09119 42040 64691 96333 12207
33620 44613 12578 09327 62281 21102 50293 21044 70474 79536
76977 62858 00715 32565 31235 79623 11419 18047 06242 31620
51044 88496 90727 68236 70216 90479 59669 50178 76533 57371
31879 06147 61733 63945 36673 34942 55909 16212 56806 88892
88465 92221 00000

11611/9425/6957 kHz, 23-03, 1030/1040/1050 UTC

11100 00000 32187 22093 02309
92014 05049 45470 69250 48702 34561 61188 77589 83950 02707
82051 85594 57576 14509 37833 40459 72113 90513 45699 75145
03099 37002 54995 01111 06419 01451 18315 32368 82391 11687
81016 01840 01269 22168 06390 55931 19858 15839 78652 38265
43945 34976 50967 98512 16199 39487 30663 87263 34259 16087
18855 22859 28687 86778 46642 41148 55455 90108 75081 64081
82694 33592 51109 48096 76350 40785 36614 98218 14463 41410
52841 58831 84741 77991 07313 17036 45129 27434 95460 79551
52046 60972 94145 09084 85993 90949 89270 31109 29208 77836
04648 46999 75051 95949 24341 14440 73838 81298 25634 81062
44760 09994 64845 82245 08622 80669 83156 39003 21064 99331
24645 16920 10959 90102 83719 32050 53670 80266 24127 14731
33866 33082 36738 67241 77567 26775 28287 76248 58125 03167
58250 65974 05806 34371 66068 03026 75682 80983 55877 88816
53514 40227 30949 00529 04296 07467 95032 66551 93177 99539
62771 87314 33431 13351 46388 37491 41157 18144 10835 10463
01415 04915 14579 91028 75468 41384 78228 67254 03831 05974
48168 17439 84800 99230 47416 33100 33168 56119 30858 63941
48790 07645 87077 95723 49717 65213 53947 96993 49548 26198
40186 95587 83725 24128 70046 70859 14430 71939 93351 72574
68787 71741 28036 02400 90057 89511 27404 18919 06498 18179
89278 52137 47597 77517 49229 38382 62351 24301 25078 11559
19282 71139 04853 11687 92884 37453 95393 96666 93228 00000

9064/6792/4565 kHz, 30-03, 1400/1410/1420 UTC

11100 00000 16348 29094 02189
12001 08561 52175 54695 16518 31644 61763 32014 42484 20730
15486 02129 00875 53232 88071 52043 68484 96986 13011 95768
23150 55120 50641 33491 33370 82888 16089 10071 44502 87429
21777 46278 28735 46360 14154 41231 91011 06154 09361 69460
48105 46251 57508 21041 23019 19826 90250 58225 21907 07142
31352 87016 85707 42458 74927 67129 33668 00394 61049 08756
40945 52714 03397 29594 17487 31456 48656 70562 80362 59344
72333 93646 36741 33423 40692 10310 19697 72860 93483 13911
44045 66835 27167 14560 74371 83470 83309 99853 22466 25734
71846 69928 16335 45253 83891 20270 07982 49971 73785 70704
12147 66593 15074 64032 93191 43756 60094 82715 42313 06855
57864 57078 12280 00468 09965 63445 01873 79316 69084 35656
07223 33703 09944 38402 82231 60348 27261 75813 75254 14588
40457 33735 34252 04843 09786 79140 97572 15325 93580 65101
12584 67891 01303 14766 49304 59004 22067 82781 01257 32719
33362 17592 90710 75654 19616 73051 20508 44862 55321 42794
39656 64550 32400 15795 14878 52595 36487 76557 25313 62764
01836 98372 22538 53613 99516 03074 23123 19971 38609 85739
25879 47963 85068 27777 71012 79506 27951 46812 83349 97219
47698 56844 66847 65669 66153 37085 42540 89916 83006 32931
47149 77273 28350 37498 34516 13228 86039 27165 47054 87458
67537 49554 49411 30895 40937 87390 94216 00000

Link 00052

18969/16358/14713 kHz, 13-03/14-03, 0900/0910/0920 UTC

11166 00052 75139 12038 01329
33250 36122 44876 22078 44977 94817 68414 40426 66359 86299
03302 97356 27372 52861 49798 82992 16047 13333 66346 84967
36962 99615 49553 04599 50241 49099 64758 62565 89354 26090
34523 33010 24646 17689 37256 91738 25523 41763 13796 19602
06408 10601 60254 16506 24080 93093 52609 74474 72974 69986
71186 87026 27716 88274 95844 30837 41567 86901 37151 00875
77999 24535 43615 09745 15205 47226 13642 21631 92467 89264
98455 87902 86468 23675 43283 63676 31507 32149 39557 13846
22336 46466 74651 53396 98585 43776 81823 96469 13070 29889
17330 01676 10817 07263 21111 00697 71564 30126 50105 01367
54607 74151 88177 23377 24184 31186 74213 52067 92369 26913
70159 69114 48042 45741 06159 09976 65192 66184 09231 56684
21908 43671 20550 15747 90497 09513 09774 58336 76198 18016
38130 00000

18969/16358/14713 kHz, 27-03/28-03, 0900/0910/0920 UTC

11166 00052 75139 12038 01329
33250 36122 44876 22078 44977 94817 68414 40426 66359 86299
03302 97356 27372 52861 49798 82992 16047 13333 66346 84967
36962 99615 49553 04599 50241 49099 64758 62565 89354 26090
34523 33010 24646 17689 37256 91738 25523 41763 13796 19602
06408 10601 60254 16506 24080 93093 52609 74474 72974 69986
71186 87026 27716 88274 95844 30837 41567 86901 37151 00875
77999 24535 43615 09745 15205 47226 13642 21631 92467 89264
98455 87902 86468 23675 43283 63676 31507 32149 39557 13846
22336 46466 74651 53396 98585 43776 81823 96469 13070 29889
17330 01676 10817 07263 21111 00697 71564 30126 50105 01367
54607 74151 88177 23377 24184 31186 74213 52067 92369 26913
70159 69114 48042 45741 06159 09976 65192 66184 09231 56684
21908 43671 20550 15747 90497 09513 09774 58336 76198 18016
38130 00000

Link 10031

20138/17428/14983 kHz, 13-03, 1015/1025/1035 UTC

11166 10031 17935 13001 00049 00000 00000 00000 00000

17428 kHz, 27-03, 1025 UTC

11166 10031 13579 27001 00049 00000 00000 00000 00000

Link 10053

See also M42

16245/14356/12138 kHz, 03-03, 1530/1540/1550 UTC

11166 10053 95134 03001 00049 00000 00000 00000 00000

16245/14356/12138 kHz, 10-03, 1530/1540/1550 UTC

11166 10053 79513 10012 00049 00000 00000 00000 00000

16357/13986/11523 kHz, 12-03, 1650/1700/1710 UTC

11166 10053 97531 11269 00049 00000 00000 00000 00000

16245/14356/12138 kHz, 17-03, 1530/1540/1550 UTC

11166 10053 14279 17065 00049 00000 00000 00000 00000

16245/14356/12138 kHz, 24-03, 1530/1540/1550 UTC

11166 10053 78945 24001 00049 00000 00000 00000 00000

16357/13986/11523 kHz, 26-03, 1650/1700/1710 UTC

11166 10053 13579 26001 00049 00000 00000 00000 00000

16245/14356/12138 kHz, 31-03, 1530/1540/1550 UTC

11166 10053 13579 31001 00049 00000 00000 00000 00000

Link 40122

18189/16046/14459 kHz, 13-03/14-03, 0600/0610/0620 UTC. Two messages

11166 40122 15678 09021 03349

83281 03181 11645 35334 68365 70160 05795 59659 44509 56559

31725 86645 04273 70475 31371 08158 93000 43675 63833 96050

26680 14669 89509 66543 32563 25554 23064 88824 10978 24819

16182 42600 41765 93283 56058 54236 83785 35386 90528 66214

40929 02971 15814 19573 93065 43802 87789 54020 15375 91954

42735 55414 34493 42303 38487 05298 94910 76265 51941 12158

34069 31018 93848 29126 89575 29340 26818 87786 86992 12304

97494 02779 81629 41976 18824 26898 52773 66330 63361 61369

73799 63549 53545 50977 06602 07918 59884 18757 93769 24472

42998 19916 46966 24621 00428 19687 54924 39901 04188 24790

59518 96067 39962 23196 73336 94704 83909 11881 37191 94542

77995 17255 41015 09669 89804 37951 56567 66822 67754 64671

55397 88958 27665 56765 10496 97265 31610 80237 05083 48832

44989 36865 96955 52144 82762 39124 11838 27600 80783 10592

64179 05233 53164 16537 28827 76831 21619 54361 12016 44640

27709 58606 95111 33825 63939 00185 49547 60903 84649 84543

46388 75311 82609 78444 08961 16313 42289 20035 81985 52416

05723 91916 15659 95507 11903 61888 88100 06873 95656 21045

14632 37306 56922 73937 17296 68483 36379 60463 53075 47796

58361 14187 24238 33827 26997 86770 19251 94663 86499 93208

57693 26222 81566 57551 37613 82786 78808 63795 08766 36939

35147 41652 20167 11068 24134 41854 15395 47657 56103 80705

74092 10520 53124 58558 23092 34182 64662 81899 65608 63600
34912 43743 01936 51398 57718 42004 40089 04803 80039 40557
19815 99486 39883 02646 98432 02486 49643 51357 71916 71384
60797 36826 29679 21964 70879 14862 66473 81491 58681 66700
99875 69841 58608 14544 66753 75637 10140 12599 97194 19599
43319 18283 89300 22289 86218 73299 33302 18431 05313 49261
58430 85011 14705 37553 00973 75327 15130 88116 16969 76181
48688 26854 87957 30413 80232 06333 93246 91943 41360 69468
47103 05534 97931 30897 24341 28428 27071 05702 22715 36090
14569 40193 35568 79202 08635 24427 33178 84124 90942 91149
76223 13993 50882 30855 09824 32658 73991 77641 11578 38637
80467 45560 21332 00000

11166 40122 45697 09022 02349
39249 71977 21197 89818 43821 84640 49433 35211 89795 99318
95575 73329 35680 96508 76924 39772 79947 46000 04505 75086
27464 57743 31180 34092 79840 52358 97910 85920 79390 99697
20343 15721 61401 98921 82923 63956 94381 98509 32713 64245
12993 79652 90096 65663 73339 51463 18583 50469 85311 31438
20861 83162 01669 09611 53326 51842 68541 19835 76240 87777
67053 66635 81731 74141 00745 81059 66808 79844 08475 03972
43587 79399 07515 20230 03905 44764 96488 92172 80520 20086
72876 65862 72089 15306 44748 48523 24082 79534 41429 80605
82859 40163 52775 50913 65078 18625 51749 28241 09608 58758
79986 07949 04164 28710 01037 96918 03833 82298 50967 85324
83674 90799 41017 78654 92601 81075 91991 88435 00710 40986
05082 05070 57258 78027 98797 01251 01475 42127 66697 39381
93388 48539 35613 81424 56862 61772 29045 24648 52027 26496
65423 11668 19291 56346 45922 88260 62121 16592 11503 07362
60786 61575 73893 02686 34238 12882 50178 80427 92325 89167
55685 02455 45531 23587 34863 59445 64414 29747 34836 57408
05947 02150 51321 66014 48929 62026 01594 02188 05685 84537
04197 47379 02200 68241 70067 21979 43914 32799 34785 65288
09346 55828 86619 94501 38729 84866 70058 41119 09865 85356
69521 88254 18362 10614 02934 57240 04464 04704 79846 17005
93642 74158 03802 14628 43151 89489 23620 50532 11715 02416
63300 46738 94565 89753 85221 81621 90987 59905 66333 89618
96569 82884 22232 00000

18189/16046/14459 kHz, 20-03, 0600/0610/0620 UTC

11166 40122 12895 20097 00049 00000 00000 00000 00000

18189/16046/14459 kHz, 27-03/28-03, 0600/0610/0620 UTC

11166 40122 65489 23023 04179
02867 44299 36360 20396 80470 11382 99020 29603 04346 11653
63345 58562 48241 38637 95867 09461 45623 47340 84959 65927
98507 42149 99124 78261 72326 94923 96166 03047 62764 22942
31688 39352 45516 81396 40324 28701 44875 50137 88187 11000
82121 19327 19926 53606 89625 03726 48856 95733 01615 40260
63596 75373 57534 48594 49644 30925 78945 59366 49330 94719
05899 39795 08589 20627 03714 71335 83985 12931 76107 59071
08431 48660 45608 77532 39028 10571 87191 82631 35482 72948
26079 44390 42518 07442 35629 80169 74740 01101 96269 93058
27361 03800 01400 45142 61259 47256 21199 20306 35788 02809
60290 56289 87766 70160 70185 50662 80110 14257 02451 70410
68525 92506 13534 19825 59703 39514 57194 46384 59459 01521
25460 89300 34251 37745 24059 00445 34512 30798 93269 92307
53239 73372 10106 92706 18272 23387 32794 10920 41697 44779
73475 44931 74830 76125 10063 84472 42189 94280 73195 89559
52910 65229 69237 49203 13056 99327 25233 49979 87221 53126
66791 09155 82909 44969 64799 52049 56086 76541 11937 38323

61374 77566 14903 66875 95303 15834 13308 14053 06077 39749
61159 84831 68264 45584 31887 81689 45891 86629 32839 20832
92324 66426 40187 50475 60430 83262 90178 50860 21414 18138
87679 20701 15788 83357 17932 79736 84911 73973 72476 42098
56529 89235 25174 40145 82756 16253 19256 03494 53936 93047
51356 22904 36820 93193 63446 53707 10497 99225 78616 38492
98518 57000 41652 53695 20650 28204 50323 09822 12685 83197
88337 59954 87773 01373 95891 96259 37682 71219 38754 39167
97432 07290 61828 48905 21770 26241 38118 14102 46866 49146
49043 97108 35729 22268 57044 40761 30732 73472 56401 66247
61718 46473 13224 16779 83098 80100 30527 26749 38399 24776
99352 21068 75685 13378 21859 74363 62300 28689 17316 84723
72359 34622 46956 41690 45434 63391 18609 93165 39871 75838
57051 40946 29167 37077 51027 19542 14855 74676 12857 37995
54331 11532 11588 89371 27061 90643 65616 57614 87596 33973
05715 76448 78856 02565 44413 20026 04088 50134 12663 29989
80964 87291 49723 08662 26249 98603 57205 33026 44455 79667
53220 69195 18960 86405 87555 92062 28988 13736 03830 39808
40909 45841 59552 57966 47304 45199 40034 12719 52205 72571
27085 78122 25973 55136 08428 26950 78244 44954 38778 79826
22377 34955 88519 92359 29834 24628 40917 84938 97957 52610
23793 44908 79549 38353 86629 55777 47709 00062 59003 33184
94362 41091 51315 72270 85918 21985 83737 36179 24498 60345
54325 40352 88157 25730 82219 12309 48560 21745 86892 31613
89525 72539 89359 79687 74893 23415 00000

Link 40133

22913/20374/18406 kHz, 02-03, 1500/1510/1520 UTC

11166 40133 78963 02001 00049 00000 00000 00000 00000

22913/20374/18406 kHz, 09-03, 1500/1510/1520 UTC

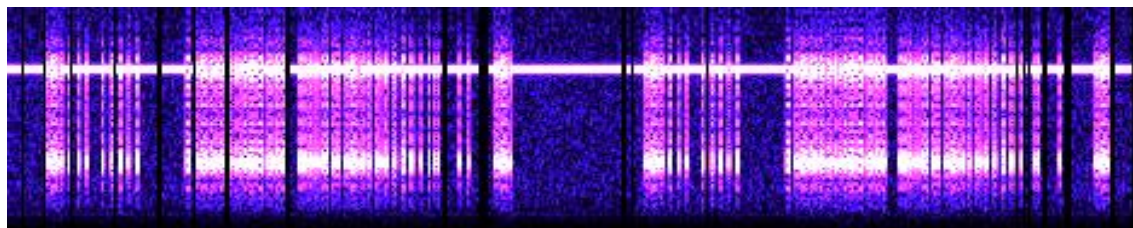
11166 40133 17935 09001 00049 00000 00000 00000 00000

22913/20374/18406 kHz, 16-03, 1500/1510/1520 UTC

11166 40133 13579 16038 00049 00000 00000 0000 00000

18726/16139 kHz, 30-03, 1510/1520 UTC

11166 40133 79513 30012 00049 00000 00000 00000 00000



F06 null message

Link 50046

17414/15605/13444 kHz, 02-03/03-03, 1100/1110/1120 UTC

11166 50046 34895 01071 02549
22919 45292 13773 10366 14954 80897 66049 89267 62540 42761
29693 09639 28230 95713 50959 36088 86977 93591 52174 30282
83197 57594 47108 46752 10005 16576 07311 25867 20719 67497
47860 02950 91428 37001 71197 76318 96555 18240 87396 47176
22877 79061 28673 98883 36010 12784 85907 48911 48714 45888
85374 88307 29344 87781 37186 04887 74046 45570 98399 10896
92632 94419 48985 50312 99270 78419 80761 42991 39736 82925
77848 00073 71247 74942 55479 48773 98439 09264 27966 51963
94955 17544 64011 13239 25907 09496 20198 91711 73665 32303
39290 49727 87412 80660 65242 40331 73519 75090 49328 78778
48046 09306 42853 25027 63972 03787 83165 07734 67121 98285
47636 03832 91586 69285 60504 44949 20620 79983 44912 16434
00237 11292 09667 72679 33981 75745 13143 53965 98465 89207
41840 56268 36882 26108 42807 75106 78139 41329 17959 17611
66012 08709 99091 79998 45006 78332 38915 75651 41343 78082
25590 84162 58588 61923 88334 29746 78659 72697 52955 18189
43475 64455 02712 07564 96747 09026 62691 93146 42531 53572
40344 75809 14765 18573 33995 46552 53517 86445 27672 18111
03052 62503 46546 83481 34511 73517 31474 59078 59148 85069
92916 31253 53464 85078 60708 71786 88995 78699 85541 87091
25367 26889 75978 91818 66366 30177 62832 56464 04402 09099
15072 81406 84722 54911 13773 06956 50287 04911 40889 83967
47011 02402 89964 02442 12401 18759 24349 39941 89838 40175
16166 78121 89640 72344 70376 07120 49185 28253 67490 76453
90891 41314 62675 16850 31031 73175 23452 06483 86568 82837
16256 64206 71252 00000

17414/15605/13444 kHz, 16-03/17-03, 1100/1110/1120 UTC

11166 50046 38541 14072 00669
61759 55205 13772 10366 53794 90800 66048 89267 01380 52774
29692 09639 89394 58758 66391 93507 32190 13680 87461 34541
35391 95170 50808 60211 36751 35533 01134 19097 32945 37908
85515 74249 67842 76541 66117 55817 03138 85081 83733 50135
91344 93291 93523 37398 02282 25658 25955 63014 51521 45917
03599 17312 43861 02720 91509 90776 04879 50714 15195 75565
31768 25348 94830 40232 72012 80000
Error in the last two groups. Should be 72064 00000

Link 60070

6796/5285 kHz, 11-03, 0040/0050 UTC

11166 60070 91548 12001 00049 00000 00000 00000 00000

7926/6796/5285 kHz, 19-03, 0030/0040/0050 UTC

11166 60070 79513 19012 00049 00000 00000 00000 00000

7926/6796/5285 kHz, 26-03, 0030/0040/0050 UTC

60070 14279 26075 00049 00000 00000 00000 00000

Link 70048

10328/9240/7656 kHz, 20-03, 0800/0810/0820 UTC

11166 70048 13579 20016 00049 00000 00000 00000 00000

10328/9240/7656 kHz, 27-03, 0800/0810/0820 UTC
11166 70048 13579 27001 00049 00000 00000 00000 00000

Link 70059

9174/7384/5148 kHz, 18-03, 0500/0510/0520 UTC
11166 70059 14279 18021 00049 00000 00000 00000 00000

Link 80214

16054/13471/11162 kHz, 07-03, 1330/1340/1350 UTC
11166 80214 14256 07024 00049 00000 00000 00000 00000

16054/13471/11162 kHz, 14-03, 1330/1340/1350 UTC
11166 80214 16237 14049 00049 00000 00000 00000 00000

16054/13471/11162 kHz, 21-03, 1330/1340/1350 UTC
11166 80214 59631 21089 00049 00000 00000 00000 00000

16054/13471/11162 kHz, 28-03, 1330/1340/1350 UTC
11166 80214 16237 28071 00049 00000 00000 00000 00000

X06 - Mazielka

Code	Freq	Date	UTC	Day	Details
X06	13465	6-3	0920	Wed	MFA Moscow clg 362154: Russian embassy Athens
X06	11424	25-3	0905	Mon	MFA Moscow clg 421635: Russian embassy Oslo
X06	11483	27-3	0831	Wed	MFA Moscow clg 412356: Russian embassy Budapest
X06	13419	27-3	0912	Wed	MFA Moscow clg 255663
X06	11561	28-3	1539	Thu	MFA Moscow clg 263145: Russian embassy Prague
X06a	7651	6-3	1933	Wed	Sequence: 161616 before E07
X06b	16138	3-3	1432	Sun	Sequence: 111666 before XPA2
X06b	16138	10-3	1425	Sun	Sequence 111666 before XPA2
X06b	16138	31-3	1455	Sun	Mazielka. Sequence: 111666 before XPA2

XPA

8084/6927 kHz, 02-03, 1300/1320 UTC
687 687 687 1 687 687 687 1 687 687 687 1
00967 00052 54612 38570 78025 70483 84059 87862 18784 69836
55833 80966 87252 04013 60848 81178 81117 25621 78194 46164
28790 47454 79177 66070 48806 79804 29526 04112 51173 76317
85460 39632 58301 74807 24944 27168 15725 75822 17897 78066
37244 46017 68041 00054 25685 45977 46595 32271 15745 37476
67514 71480 86243 92098 46327

12132/13453/14576 kHz, 05-03/07-03/12-03/14-03, 0810/0830/0850 UTC
973 973 973 1 973 973 973 1 973 973 973 1
00318 00045 02729 31586 17319 76248 25227 87803 20267 52682
86875 29965 03893 30349 12853 21409 03168 02889 03140 47280
61260 41341 03960 07180 38766 09182 77118 77425 69984 66685
91041 20546 60450 95387 86231 66059 43290 13443 40926 99371
58886 19286 60493 43188 87025 03432 84478 47366

12132/13453/14576 kHz, 19-03, 0810/0830/0850 UTC

973 973 973 000

06053 00001 00000 32663

12132/13453/14576 kHz, 21-03, 0810/0830/0850 UTC

973 973 973 000

02693 00001 00000 35663

12132/13453/14576 kHz, 26-03/28-03, 0810/0830/0850 UTC

973 973 973 1 973 973 973 1 973 973 973 1

00239 00200 53279 62639 49452 54471 88557 83195 08812 87285
82725 20725 24982 57515 37172 61684 22890 00996 28671 95900
45544 80456 51800 97351 25750 33659 78395 72279 77500 26073
90236 19359 45433 90507 23242 66009 57282 09461 45801 06156
14866 83675 29286 02668 82427 05978 84000 34721 82825 62371
58138 63914 36412 41947 65356 35136 00059 38656 46337 85464
83656 18123 04260 04645 85316 54938 84790 40617 88819 91308
20723 20285 03170 82626 43789 52342 42438 89093 76842 12524
88178 55179 03064 39445 80154 20717 04463 86154 13402 19372
94881 68707 89248 32132 39766 43870 14231 80191 75243 43154
69695 97334 48154 29240 11671 54954 69364 26597 91020 26866
73321 88065 21368 17507 97810 55003 32390 18089 17179 99320
45116 94178 43821 26769 66874 41957 42532 06020 34666 06054
05535 15739 01344 58435 04348 12117 75170 31987 11488 35365
16266 46611 45210 31423 59147 96641 07643 70741 14674 42989
11191 95837 63020 48503 01384 96795 76718 07039 54837 04673
36259 23337 75291 66964 22319 45178 14305 60114 73491 51136
73621 81392 81514 27671 03890 49298 91053 70556 13310 09285
91465 96652 88868 06026 00627 80764 89978 64507 74647 21670
07687 81499 29693 44589 33763 59074 34937 28776 65442 92397
34617 58880 26007

XPA2

18667/17419/16212 kHz, 01-03/02-03, 1400/1420/1440 UTC

00179 00030 05602 99289 99760 29428 95199 77148 68334 79009
25712 19641 53653 56633 15929 71541 61207 08319 75359 54398
47396 08566 48785 07157 62275 60503 05160 45371 74635 66003
31449 63319 03162

16261/15961/14861 kHz, 02-03, 00910/0930/0950 UTC

03268 00077 52871 42572 55693 88505 49028 65685 37277 51563
05455 91910 32162 53111 65481 82363 19620 94063 72713 14407
75214 89533 67834 51147 58427 89754 42402 67068 12107 54064
75410 19326 74251 67473 38938 77783 17611 72835 44606 61880
32477 21235 60784 19321 02752 23595 03049 06065

16138/14438/13438 kHz, 03-03, 1500/1520/1540 UTC

09778 00001 00000 40670

12192/13892/14892 kHz, 04-03, 0800/0820/0840 UTC

02782 00001 00000 35662

12163/10863/9363 kHz, 04-03, 1600/1620/1640 UTC

02684 00001 00000 36262

16138/14438/13438 kHz, 05-03, 1500/1520/1540 UTC

04693 00001 00000 35665

12192/13892/14892 kHz, 06-03, 0800/0820/0840 UTC

09336 00001 00000 35664

16345/14838 kHz, 06-03, 0930/0950 UTC

00162 00022 80271 21372 19671 80787 94040 93350 09431 55766
81721 18652 86851 32188 84610 94232 94947 83102 56407 25092
80314 17008 65457 45402 51061

16261/15961/14861 kHz, 07-03, 00910/0930/0950 UTC

07769 00001 01000 40774

13994/13494/12194 kHz, 07-03, 1600/1620/1640 UTC.

Message; too weak to copy

18667/17419/16212 kHz, 08-03/09-03/16-03, 1400/1420/1440 UTC

00503 00092 72641 10962 78710 20538 88906 81943 02490 15930
64115 42460 31388 36503 42750 81056 64280 24957 11829 99445
03248 48639 47776 89964 83979 33393 31369 79631 39633 30888
97244 72738 82861 68326 03780 17684 38583 49824 62554 10706
35635 14567 39087 08309 11241 27440 47716 69925 58213 58404
63841 23955 67192 35415 06505 12344 10503 99137 78311 41908
12317 77542 40433 87006 14380 39281 98722 15709 63413 08112
47519 82765 98577 01779 28227 96695 85256 46074 54266 16994
36573 14110 81568 29231 48667 79164 46687 00854 53304 41676
11354 76376 84016 74267 51537

16261/15961/14861 kHz, 09-03, 00910/0930/0950 UTC

83557 00001 00000 36265

12163/10863/9363 kHz, 09-03, 1600/1620/1640 UTC

02252 00001 00000 33257

16138/14438/13438 kHz, 10-03, 1500/1520/1540 UTC

09287 00001 00000 35671

12192/13892/14892 kHz, 11-03, 0800/0820/0840 UTC

04068 00001 00000 35262

18333/16345/14838 kHz, 11-03, 0910/0930/0950 UTC

01117 00001 00000 35252

12163/10863/9363 kHz, 11-03/16-03, 1600/1620/1640 UTC

00536 00164 81987 81659 41873 78387 18387 69860 64952 32583
56413 31354 86435 69416 86483 32989 32875 19070 25109 86398
63261 09617 52737 29125 40627 40015 51819 07428 30916 52559
06999 73834 37470 55764 14873 02273 18110 53352 36123 58286
45048 16378 47351 34070 70963 05505 58335 70164 97799 07188
20486 26893 46665 62635 91511 56525 53286 46273 57601 49860
80582 44976 30547 02606 09277 67135 00424 13237 90535 77916
76158 87500 79179 79896 58412 92281 22269 16416 85742 20568
87974 94587 96395 63075 69458 32762 05913 01264 00333 08216
60121 20961 73498 55901 77739 81687 12905 98298 07203 18738
35107 70943 03141 96010 04342 19167 07207 02178 44839 26420
52838 27809 56893 66935 94879 82338 12626 40413 38841 71062
93627 69088 84732 56338 25765 21227 71987 73610 87807 58012
81033 05436 64841 45669 31945 37564 36549 70076 57178 61858
65572 98007 04592 30284 11954 57356 56324 17625 56668 59293
06221 31233 35460 65597 35911 44038 18761 41428 85407 90285
91228 99063 70272 40586 80055 00147 33066

16138/14438/13438 kHz, 12-03, 1500/1520/1540 UTC
02679 00001 00000 40661

13994/13494/12194 kHz, 12-03, 1600/1620/1640 UTC.
02247 00001 00000 33656

12192/13892/14892 kHz, 13-03, 0800/0820/0840 UTC
08197 00001 00000 35271

18333/16345/14838 kHz, 13-03, 0910/0930/0950 UTC
02371 00001 00000 33261

16261/15961/14861 kHz, 14-03, 00910/0930/0950 UTC
07978 00001 00000 41666

13994/13494/12194 kHz, 14-03, 1600/1620/1640 UTC.
08590 00000 00000 33671

18667/17419/16212 kHz, 15-03, 1400/1420/1440 UTC
04862 00092 70004 82246 95049 01264 41191 17663 00738 98310
77370 15837 49303 89830 69360 76287 81388 22549 21636 27499
14538 32388 75710 34306 71811 49421 55880 04659 85422 76810
52206 19418 84433 49551 77071 20869 72602 14606 89913 17136
49852 28652 58025 31947 80275 98606 01371 88693 55911 70382
59434 70660 16700 93686 05878 88250 95042 32538 55441 66123
08680 93578 34091 34074 00687 65593 18092 09974 26537 35311
48560 49722 59127 90963 36208 86056 65479 85303 61922 20324
12210 72852 65852 69975 78006 81094 67047 81681 19970 55068
55037 14550 20925 48776 35134

16261/15961/14861 kHz, 16-03, 00910/0930/0950 UTC
04551 00001 00000 34261

16138/14438/13438 kHz, 17-03/19-03, 1500/1520/1540 UTC
03822 00082 69682 15964 66274 18179 27678 06330 24363 53706
43223 68872 71354 90048 83100 10364 73254 39759 62685 35338
45926 95310 75212 37917 53977 68648 05970 71680 16678 70267
24062 38404 20803 62389 79379 60714 79680 93595 29100 50641
22433 99202 06740 79552 25926 57842 95286 98124 81235 04903
52227 85010 82094 05218 49411 46009 00041 66186 17722 55372
16643 43400 05868 94299 14171 72835 40228 06365 92486 07983
35831 44244 36132 09394 60358 68653 15127 96002 13783 42570
60295 14367 48938 58653 04451

12192/13892/14892 kHz, 18-03, 0800/0820/0840 UTC
02036 00001 00000 34255

18333/16345/14838 kHz, 18-03/20-03, 0910/0930/0950 UTC
00119 00280 23269 37492 04471 59925 89581 26660 57926 72663
40918 72062 29638 89164 62963 87430 55126 52267 03988 69327
78378 83503 64356 99559 75972 19438 50920 12065 15757 16505
52492 37537 51096 64680 62282 69531 40136 61336 04320 64169
48257 68679 07849 91117 06702 31988 79666 52044 70994 92936
02163 16005 72901 54144 27311 69338 31033 76380 60605 59975
44905 54479 16858 92210 80794 64192 42421 57834 88974 13945
33587 97016 79057 26301 52534 04995 20083 02925 25290 34360
07748 79207 90801 23320 77018 44635 89446 46293 06764 61958
02106 74263 41468 67482 23926 07509 56562 42950 72452 83894
07972 38907 32423 20331 55528 53748 98566 21246 18207 55653
68207 26278 52976 68580 36313 19995 99363 15481 17684 11594
82103 99130 78904 91438 05232 31525 02375 91349 23553 52199

41031 88342 80619 80302 88348 27590 69899 01662 07170 63039
89362 41974 16485 05793 70325 17192 80999 01431 67456 65428
15343 49296 21559 13807 31745 97971 61791 63292 64301 11026
36257 17669 38309 31549 73136 12607 74412 46184 53554 70533
93530 53388 07752 46799 81802 88051 85903 30542 47527 54144
41307 84967 08099 65484 65194 28945 68058 86588 58650 21249
53843 26808 03288 89454 41889 14274 80178 03275 90502 46717
03000 40617 95748 64923 04293 23970 84466 36284 55648 74551
66974 97351 00890 71536 16708 11027 21942 03176 25608 07961
44710 88252 89754 01265 30717 21594 95552 98017 77574 33548
92574 24588 66448 99711 40980 26255 28164 29180 39156 98825
38048 38220 94914 11736 72024 42462 27827 34919 11038 58169
83936 03700 30479 82874 03299 07939 87987 76367 50848 66573
63371 61545 62728 12578 33065 95157 86873 41960 75000 31930
81108 45050 55320 86661 29797 43271 49451 54380 37033 63241
72798 63474 00725

12163/10863/9363 kHz, 18-03, 1600/1620/1640 UTC

07036 00001 00000 34262

13994/13494/12194 kHz, 19-03, 1600/1620/1640 UTC.

09561 00001 00000 34267

12192/13892/14892 kHz, 20-03, 0800/0820/0840 UTC

05608 00001 00000 40255

16261/15961/14861 kHz, 21-03/23-03, 00910/0930/0950 UTC

00906 00072 37992 93696 90283 12777 66924 76110 00038 64481
97923 64630 81047 53651 61952 16230 23494 54419 39475 22628
44644 47230 56752 07528 41596 83365 55885 62809 54915 27035
38228 14631 50269 74485 49392 86569 55156 21912 23666 22605
32714 44307 34305 41666 66181 63877 00757 45744 85450 24974
82062 03658 11119 54716 01821 49851 34745 03812 46803 33972
23099 93916 71406 66272 29522 86892 78105 21076 68343 39244
48816 20791 04294 24178 71421

13994/13494/12194 kHz, 21-03, 1600/1620/1640 UTC.

05310 00001 00000 32656

18667/17419/16212 kHz, 22-03/23-03, 1400/1420/1440 UTC

00665 00082 14101 60717 49779 94790 13967 62218 39511 88706
12334 83107 46336 08886 28301 09258 95606 97433 45055 31477
20820 32952 01588 56521 78962 21480 89127 97840 21701 63043
84757 06704 23077 66723 67972 44822 28596 60875 50738 54283
09757 64223 48271 95650 84436 34527 92379 83883 46496 38203
55649 81914 66641 16495 38836 73419 84249 69609 13657 32980
43918 40949 80219 16068 61944 43669 21347 28820 41201 42354
69102 62507 50389 93189 90615 14880 51000 05941 14389 62179
76209 91574 11456 61814 26476

12163/10863/9363 kHz, 23-03, 1600/1620/1640 UTC

05434 00001 00000 35260

16138/14438/13438 kHz, 24-03/26-03, 1500/1520/1540 UTC

00344 00102 32673 61680 46656 73111 87542 91657 64314 86122
26022 59289 31280 54248 38262 51438 48026 29184 89990 18602
26524 94142 12009 61997 88818 58868 81514 76638 05641 39285
02686 06581 53116 03434 28601 38019 65762 85658 23175 06803
04988 84681 84929 52360 66265 51894 07051 24302 70109 70314
60599 28286 06655 26497 46074 45015 83466 05798 90858 58226
72421 72261 86366 92436 86110 64571 05458 74522 91601 23272
46933 30575 92862 21590 81619 42034 59826 70179 82202 07743
17891 83393 80539 07360 03978 87282 93873 18170 01680 23335
49253 34509 28883 84242 69305 57746 63135 02205 96707 13902
40822 22081 33899 96999 25065

12192/13892/14892 kHz, 25-03, 0800/0820/0840 UTC

04314 00001 00000 34655

18333/16345/14838 kHz, 25-03, 0910/0930/0950 UTC

04126 00001 00000 34256

12163/10863/9363 kHz, 25-03, 1600/1620/1640 UTC

06740 00001 00000 34662

12192/13892/14892 kHz, 27-03, 0800/0820/0840 UTC

07722 00001 00000 35660

18333/16345/14838 kHz, 27-03, 0910/0930/0950 UTC

02061 00001 00000 31660

16261/15961/14861 kHz, 28-03, 00910/0930/0950 UTC

02127 00001 00000 35254

13994/13494/12194 kHz, 28-03, 1600/1620/1640 UTC.

07352 00203 71027 84954 67506 92785 38898 84900 48312 89536
52450 67518 41619 47676 75931 13832 58054 64534 87907 52604
52111 03857 86508 18048 97934 06284 40346 42118 13223 27319
16260 53049 35661 29278 23981 98382 48020 94278 05531 69047
42582 07137 66926 79020 03427 40181 47966 46993 75319 82738
90774 16182 17285 35891 38914 23572 55598 90670 56554 20245
03314 15770 87810 05707 45623 61005 84377 41650 33981 60210
92836 32180 95065 50968 65612 42229 98635 35927 28257 28000
19076 34610 98400 27360 08254 08036 15735 10620 04879 41799
94577 44454 28916 06161 02599 36296 52611 73751 30545 05613
75504 26931 09747 49878 29840 52240 77753 02400 73214 22930
76332 43196 15168 58383 13014 66901 43620 05817 17826 79284
06053 19170 40626 53759 18748 56598 39397 76149 73817 33078
49729 72702 50010 49975 16711 16284 76498 50266 20331 50088
42167 59640 50769 52522 40141 76641 33011 38881 03052 90661
39241 89918 53375 60062 54665 65716 96777 99121 69446 83235
67933 58710 78663 65171 42573 27104 17641 13881 57485 00799
90681 73520 10161 27747 88055 46662 28338 32876 19899 05862
82980 77107 32983 20599 37725 80656 91113 82446 70394 25714
64475 73331 11372 96129 11496 91956 29514 53025 94218 87386
09487 42527 85383 27774 08898 76102

16261/15961/14861 kHz, 30-03, 00910/0930/0950 UTC

06731 00001 00000 35261

18667/17419/16212 kHz, 29-03/30-03, 1400/1420/1440 UTC

02475 00104 58566 28697 08881 78191 29806 67804 05763 60199
50517 20869 43876 53274 91234 53194 09826 40240 20009 77894
68813 94427 78390 75400 69141 26931 96658 08799 01673 80132
21218 39404 64329 42671 59446 00040 71736 55470 55660 54064
20214 43476 03820 26061 83611 86275 47897 40386 71486 16507
33135 44269 39033 74871 54791 77378 81309 84189 44855 77032
91926 99125 40522 22702 37684 53002 20004 41100 83777 93430
61180 28862 75809 90446 19300 46194 62102 52840 33120 88095
05709 16509 74241 94160 84424 16192 04699 74921 07247 91130
11437 36699 94503 06555 07003 71577 16860 27493 95037 38303
83315 89005 04089 83233 65812 18098 14013

12163/10863/9363 kHz, 30-03, 1600/1620/1640 UTC

05978 00001 00000 41664

16138/14438/13438 kHz, 31-03, 1500/1520/1540 UTC

04851 00102 56967 29860 47533 72151 41219 27322 91316 37936
16486 38803 47101 51452 59900 14504 69919 20483 71851 14177
52741 80139 58374 53559 36435 09382 79420 78141 24596 83571
06534 46116 57029 13491 39982 95220 80894 86651 57189 29042
86692 75592 57795 33701 85589 42104 33073 85066 00820 04088
67606 19483 58618 96202 49689 02657 69509 75085 42835 35183
57653 28236 66717 33394 34246 19390 72746 69234 73646 90160
78313 04654 66479 14632 29204 56722 87579 32892 04150 48037
03323 65888 04633 63218 66210 20286 76847 65366 32383 91283
74028 67756 08113 10061 96106 71945 22987 65084 78265 87491
65218 14346 43628 17350 52042

DIPLOMATIC STATIONS

North Korean diplomatic stations

Mode DPRK-ARQ 600 LSB

10300 kHz, 7-3, 0845 UTC
13451 kHz, 17-3, 1735 UTC
7679 kHz, 18-3, 1359 UTC
14850 kHz, 23-3, 1413 UTC

Egyptian diplomatic stations

17416.7 kHz, 19-3, 1118 UTC, SITOR-A 100/170

Egyptian diplo i.p. E1EC9 6A173 49F87 FD0B4 47CEA 7AFF 1D821 7E818 F8C10 C91 NNNNNRD HJKJ KDYFASH +?

UTILITY ROUND-UP

North Korean Military

3447.5 kHz, 06-03, 1618 UTC, i.p.

R1EO 1212R300005 K ABV =
372R120999R121212R300005 K

3201 kHz, 06-03, 1932 UTC, i.p.

VVV JX8 (x3) DE JCS (x2) 8R AS

DEE Z .. QRV K

GZY QSA ?

OK K

DE

HFC QSA ?

R QSA 4

DE YLN

DE DE

DE YLN QSA ?

OK QSA 3 K

DE QKK K

DE DE DE

QBK QSA ?

OK QSA 2 V

DE

UKQ K

DE

UKQ QSA ?

OK QSA 2 K V

DE BZ

DE DE

6TB QSA ?

OK QSA 2 V

..9F K

DE W9F K

DE W9F K

DE DE

DE JFE QSA ?

OK QSA 2 V

A MWO F K

DE DE W9F QSA ?

OK QSA 3 V

DE PR9 K

DE DE DE OK QSA 2 OK QSA 2 V

DE XFY K

DE XSY QSA ?

OK QSA 3 V

FYG DE

DE FKR QSA ?

OK QSA 3 V

DE 2MQ K

DE DE 2MQ QSA

OK QSA 3 V

VVV QTR 40 QSA ? K

3291 kHz, 06-03, 1948 UTC, i.p.

VVV 3B9 (X3) DE GJU (X3) CT RU

1831 1831 VA VA 0 0

3127 kHz, 11-03, 1448 UTC, i.p.

VVV ZON (x3) DE 3BN (x2) QRU
= 9883 9883 SK SK 0 0

4945 kHz, 25-03, 0847 UTC, i.p.

VVV UMG (x3) DE 37H (x2) QRU
5339 3 5339 SK SK 00

4 Rising Tones

7506 kHz, 14-03, 1900 UTC and still going on at 2350 UTC.

8603 kHz, 19-03, 2202 UTC

4 Rising Tones. Sequence of 4 seconds. Each tone is 1 second.

These are test tones sent by the South African Navy. Often followed by their MHF-50 modem.



Propaganda

The daily show:

7050 and 7055 kHz, daytime in LSB.

Night frequency: 3731 kHz LSB. Not always on the air.

Ukrainian-Russian propaganda war. Propaganda messages from both sides, music, shouting, jamming, swearing

Unid stations

3551.2 kHz, 06-03, 1256 UTC, i.p.. Unid. Possibly Chinese. Logged by JPL

VVV (x3) 4VJ (x3) DE XB7 (X2)

CK 3864 CK 3864 = =

3DU 36A 4D7 TDTT 7TN TD3T T5A AU3 A43T 5434

A63T UU ADTT UUU UTTT 534 TT3T 3TT TT3T 76D

UA3 T7TT DAD AU3 UUU 636 D7N 75U T7A ...

Unid beacon "N", formerly on 3806.2 kHz

3002.6 kHz, 10-03, 1435 UTC

Beacon N, ca every 7 secs.

3002.6 kHz, 10-03, 1715 UTC

Beacon N, ca every 7 secs.

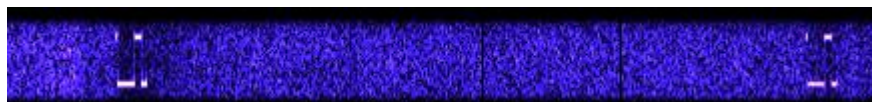


3002.6 kHz, 16-03, 1432 UTC

Beacon N followed by brief morse (ca 5 secs), then N again

3002.6 kHz, 18-03, 1402 UTC

Beacon N, every 7 secs. Negative keying on 3003.1 kHz. See below



US JCS Foxtrot Messages & Emergency Action Messages

US Joint Chief of Staff Emergency Action Messages and Foxtrot Messages

Frequencies: 4724, 6712, 6739, 8992, 11175, 13200, 15016 kHz

Date	UTC	Callsign	Details
01-03	2322	Dedicate	30 chr EAM EIV7SF 5I7C5W3SO75UDA2VL6LVI3Y2
02-03	1257	Celestial	30 chr EAM for Regio Alpha, for Region Bravo H53TRD UQ6RB7MEBGU4OQSZOXFTM54L
02-03	1316	Celestial	30 chr EAM H5OTX6 CJVGWNFGKPYFRREYIFGRQIFA
02-03	1329	Celestial	30 chr EAM EIHOWN IBRPY2CAF2DZXW4IF4EIDBVJ
02-03	1332	Celestial	30 chr EAM EIZOAP YYLXGM2URUF2YBPLSTCE4QRO
02-03	1349	Celestial	30 chr EAM EIRQCW NPWS3T42OP2RZZEZDRDCGPWQ
02-03	1351	Celestial	30 chr EAM EIZYJS KH7NK47V5NJ7DC4KX5F2OTVU
02-03	1400	Celestial	30 chr EAM EIZYJS KH7NK47V5NJ7DC4KX5F2OTVU
02-03	1402	Celestial	30 chr EAM EIRQCW NPWS3T42OP2RZZEZDRDCGPWQ
02-03	1404	Celestial	30 chr EAM EIZOAP YYLXGM2URUF2YBPLSTCE4QRO
02-03	1407	Celestial	30 chr EAM EIPZ5C JEQIY24JZMCTMB47EYYP7LJA
02-03	1411	Celestial	30 chr EAM EIICZX 4EFKCJH6G7SDW2KW4Y7SGT62
02-03	1418	Celestial	30 chr EAM H5QICR GDH2DZET2JTICHZKE6OSC72GYMNDVU 36CHR
02-03	1453	Celestial	36 chr EAM H5QTKB JEVRIIVOIMDI4XAKEYPDFMZM
02-03	1506	Celestial	30 chr EAM H5M463 OW3ZACBXEXIOCUIRNF0C4VBM
02-03	1522	Celestial	30 chr EAM H5VDJZ YKTDFJEXFU3E0FQLRYK2UEWK
02-03	1725	Celestial	30 chr EAM H5DMFI TT7VI7NFCMPJXVI2NIHLEZGT
02-03	1748	Celestial	30 chr EAM H5D4E UU7XAKOVHKJBUE5UWJIVVZUT
02-03	1903	Celestial	30 chr EAM H5IPHY XYH3H5F2YBBH2U2WICTDEVXC
02-03	1947	Celestial	30 chr EAM H5SXDU EXDD65NZTG7HPZXZ3MEU72SR
02-03	2012	Celestial	30 chr EAM H5Z6RW 765D4I6ABRKIR2RQXNLA6ND
02-03	2012	Celestial	30 chr EAM H5AJXO EC623IFCTDIWC4UCN4AEEXYZ
02-03	2143	Celestial	30 chr EAM H5UU33 OUN43C2UQ5TOIPP7WFCGRHQ5
03-03	0007	Tall Tale	30 chr EAM for Scrow H5U3BZ H6OTSW75ZGOBZRDOAJX2DC6I
03-03	0112	Tall Tale	30 chr EAM for Scrow H5IK47 UIXJKTEQZULVC5UOKNYXHLWC
03-03	0217	Tall Tale	30 chr EAM EISBG7 BKMU7TIHPCFSENQKSQQJ4UAP
03-03	0318	Tall Tale	Skyking msg: EAM Pink Floyd time 18 auth NR
03-03	0502	Andrew	Skyking msg: Led Zeppelin time 02 auth OE
03-03	1230	Tall Tale	30 chr EAM for region Alpha, for region Bravo H5L4WX XZ5E2HOVAODUKF6U4IPK4BAZ
03-03	1302	Tall Tale	30 chr EAM H57LUR VLF5UI37JXPCUEBMNYONF7FA
03-03	1325	Tall Tale	30 chr EAM EINZLW EFM4XURUUVH6MZXGRFNAPUQV
03-03	1330	Tall Tale	30 chr EAM EINZLW EFM4XURUUVH6MZXGRFNAPUQV
03-03	1331	Tall Tale	30 chr EAM EIIYDV NLXCPJKSAKD2QNLRV35GJXBE
03-03	1333	Tall Tale	30 chr EAM EIIYDV NLXCPJKSAKD2QNLRV35GJXBE
03-03	1816	Tall Tale	30 chr EAM H5IXYV GIHBAQTQS5IYYA2DSRZ2NIY
03-03	1904	Tall Tale	30 chr EAM H554JF RDER7LA2P2SNU5G5KXAD5YR5
03-03	2311	Tall Tale	30 chr EAM EIOFIE JQUJ5TI43SFCNOOUF5YQXH3
04-03	1347	Valorous	30 chr EAM for Dale H5JR2G H4MDOECPWEZT4JHXDNP6U2OT
04-03	1356	Valorous	30 chr EAM EICFJF ZJNJMSJP7RMX3NSD335SU3WH
04-03	1403	Valorous	30 chr EAM EIHWWK RYXQHNGWIEU3UXMLFBKE6O4N
04-03	1433	Valorous	30 chr EAM for Dale H53X5O XKWP4UASCVYWSPPL7AUWEF4T
04-03	1503	Valorous	63 chr EAM H5LS4M TKZFSUL4ERF2U7OVQH5SURLHYFCT42OVQB5FFU4APGQXJMVZR7ONGMSRJ
04-03	1509	Valorous	30 chr EAM EI343W YIZOYIPLU6VFLYAP2MFD4WAH
04-03	1532	Valorous	30 chr EAM EIA5HD BUBSWFN4BMQOIXJ3ABNBDMAL
04-03	1537	Valorous	30 chr EAM EI2WAC GBU42BPPW7KUM4TZ6Y2E7SPV
04-03	1540	Valorous	30 chr EAM EI5ZIZ V7LHG6PDNWOKHHYMVDC367OT
04-03	1546	Valorous	30 chr EAM EIF6AP 4VNZJKCRE6OX5J7BU6RUP43A
04-03	1549	Valorous	30 chr EAM EIEQLB BONBFWNRSBCVMRTZZLBPW0EZ
04-03	1928	Valorous	30 chr EAM EIXFKM X2VDHBWZG7NOJYUY43JVEAH
04-03	1933	Valorous	30 chr EAM EIXFKM X2VDHBWZG7NOJYUY43JVEAH
05-03	1657	Tidmouth	30 chr EAM H56DBH HQYZDZOPVXZXI6QEHA6I2E
05-03	1701	Tidmouth	30 chr EAM EIO2NQ YCWIJYTV2QUUPM5CITOGKDEJ

05-03	1716	Tidmouth	30 chr EAM EIIKLR DP5EEIXULD4QJYQQQ5QOVXYE
05-03	1816	Tidmouth	30 chr EAM for Bob H5WXOK 7MWNK33XTVMDBMIIIFA4I2C
05-03	2001	Tidmouth	30 chr EAM EIQXRB GDL2SB2RFZTZHC6QNQHWWLONG
05-03	2026	Tidmouth	30 chr EAM for Bob H5YUAH LHJTKOINI4VWV5DMGLH75HAX
05-03	2316	Tidmouth	30 chr EAM for Bowl H5S5NY VELKERKQAV43YFOBRIEYBIE
06-03	0209	Nominate	30 chr EAM EIQP3C H7OFIYPZ3BFXSNQJVOTAGIRQ
06-03	0417	Nominate	Skyking msg: Corn time 17 auth LF
06-03	1341	Nominate	30 chr EAM EIJDLD CUIVVG6FBHXBKUMKLMAMDRL2
06-03	1401	Nominate	30 chr EAM EIMHDX WZ5KPPRJ62G3K4T5TGC3YF
06-03	1734	Nominate	30 chr EAM H54HIW WC6DUQ2RSAF36AAFRFMJLR6G
06-03	1745	Nominate	30 chr EAM for KenZo H5RADK HTMMHVKA72IANZ7YSFEKHBA
06-03	1833	Nominate	30 chr EAM for Biggie-31 H56GJC ASVXHMO664V6CWMIRGGI6GJS
06-03	1836	Nominate	30 chr EAM EI5E7Z DQ7YFYQRUA2V4TGBCAJBXXKZS
06-03	1859	Nominate	30 chr EAM EI5E7Z DQ7YFYQRUA2V4TGBCAJBXXKZS
06-03	1917	Nominate	30 chr EAM EI27KM HVWWRN2HI7Q3QLQAL7IWJERH
06-03	2032	Nominate	30 chr EAM EIKCRB Z6TKS64JB5K2T56W3SYWZCGK
06-03	2043	Nominate	30 chr EAM for Campo H5DRN6 BWSOET2DOKIAGD5I6LKML46R
06-03	2054	Nominate	30 chr EAM EINY3I EC3ULJGC6OK2E3G3GHL4GCED
06-03	2206	Nominate	116 chr EAM TTWJ25 EDETXXHE4GBE2L6OZAORQ6TWJJC7XWJDVTOCNHATGUTHSHS4KQY7X5KAAAA6RRZYJSFYDZ5EJ7J 7CVVVVTFGFQEH5SQGTFFK5K5FHHHHS7C7G7EUT
06-03	2213	Nominate	30 chr EAM EIOI6T 556WDSYHYOF3P7KJANNL2JGY
06-03	2237	Nominate	116 chr EAM TTWJ25 EDETXXHE4GBE2L6OZAORQ6TWJJC7XWJDVTOCNHATGUTHSHS4KQY7X5KAAAA6RRZYJSFYDZ5EJ7J 7CVVVVTFGFQEH5SQGTFFK5K5FHHHHS7C7G7EUT
06-03	2300	Nominate	116 chr EAM TTWJ25 EDETXXHE4GBE2L6OZAORQ6TWJJC7XWJDVTOCNHATGUTHSHS4KQY7X5KAAAA6RRZYJSFYDZ5EJ7J 7CVVVVTFGFQEH5SQGTFFK5K5FHHHHS7C7G7EUT
06-03	2323	Nominate	30 chr EAM for Campo H5AZ5W RBUDTVAVJF6GQRM4Y6FSN4VR
06-03	2330	Nominate	116 chr EAM TTWJ25 EDETXXHE4GBE2L6OZAORQ6TWJJC7XWJDVTOCNHATGUTHSHS4KQY7X5KAAAA6RRZYJSFYDZ5EJ7J 7CVVVVTFGFQEH5SQGTFFK5K5FHHHHS7C7G7EUT
07-03	0000	Nominate	116 chr EAM TTWJ25 EDETXXHE4GBE2L6OZAORQ6TWJJC7XWJDVTOCNHATGUTHSHS4KQY7X5KAAAA6RRZYJSFYDZ5EJ7J 7CVVVVTFGFQEH5SQGTFFK5K5FHHHHS7C7G7EUT
07-03	0233	Lifebuoy	30 chr EAM EIASGP 3JSVKUYAPQ2DRPVHOF25A4UT
07-03	0521	Lifebuoy	30 chr EAM EIUSBG VKKK4WIWKIJ5LUOWLBQDZ4BX
07-03	0549	Lifebuoy	30 chr EAM EIQ74B PEZAXBHWFBU7TKL4YQ3NS32JO
07-03	0600	Lifebuoy	30 chr EAM EI5AE6 KPKYC73S4YYD35UUR3QU4BYD
07-03	0602	Lifebuoy	30 chr EAM EIQ74B PEZAXBHWFBU7TKL4YQ3NS32JO
07-03	0605	Lifebuoy	30 chr EAM EIUSBG VKKK4WIWKIJ5LUOWLBQDZ4BX
07-03	0630	Lifebuoy	30 chr EAM EI5AE6 KPKYC73S4YYD35UUR3QU4BYD
07-03	0633	Lifebuoy	30 chr EAM EIQ74B PEZAXBHWFBU7TKL4YQ3NS32JO
07-03	0636	Lifebuoy	30 chr EAM EIUSBG VKKK4WIWKIJ5LUOWLBQDZ4BX
07-03	0642	Lifebuoy	30 chr EAM EICVZY BCZFWV76ECR3CNDK2W4PC3SB
07-03	0645	Lifebuoy	30 chr EAM EIDEK5 IE62IG3Y63Q62LMWBU7OBZ3G
07-03	0700	Lifebuoy	30 chr EAM EIDEK5 IE62IG3Y63Q62LMWBU7OBZ3G
07-03	0702	Lifebuoy	30 chr EAM EICVZY BCZFWV76ECR3CNDK2W4PC3SB
07-03	0704	Lifebuoy	30 chr EAM EI5AE6 KPKYC73S4YYD35UUR3QU4BYD
07-03	0729	Lifebuoy	30 chr EAM EIDEK5 IE62IG3Y63Q62LMWBU7OBZ3G
07-03	0731	Lifebuoy	30 chr EAM EICVZY BCZFWV76ECR3CNDK2W4PC3SB
07-03	0734	Lifebuoy	30 chr EAM EI5AE6 KPKYC73S4YYD35UUR3QU4BYD
07-03	0835	Resident	102 chr EAM TTEUHO DRQW36SIBEW2UXFVSTLD2W4WO56E4SXAXL3JJJJEP5WK37EXYPJ2TSWSZUB6OXDWSVEISRIJZE URCN76MYU63GF5CHF2NEXL
07-03	1021	Lifebuoy	41 chr EAM H5ZVIE FZNPMQSK2QPN732A3HY2A3PPYLQ6O77T4A7
07-03	1410	Lifebuoy	41 chr EAM EISRIJ ZEURCN76MYU63GF5CHF2NEXL
07-03	1430	Resident	30 chr EAM EISRIJ ZEURCN76MYU63GF5CHF2NEXL
07-03	1502	Resident	72 chr EAM TTEUHO DRQW36SIBEW2UXFVSYLD2W4WO56R4SXAXL3JJJJEP5WQ37EXYPJ2TSWSZUB6OXDWSV

07-03	1507	Resident	30 chr EAM EISRIJ ZEURCN76MYU63GF5CHFZNEXL
07-03	1530	Resident	72 chr EAM TTEUHO DRQW36SIBEW2UXFVSYLD2W4WO56R4SXAXL3JJJEPSWQ37EXYPJ2TSWSZUB6OXDWSV
07-03	1534	Resident	30 chr EAM EISRIJ ZEURCN76MYU63GF5CHFZNEXL
07-03	1817	Resident	30 chr EAM for Boar-37 H54DRH KVB6G6QRAIAX4QAJKKJAMCWP
07-03	1828	Resident	30 chr EAM for Bulk H5ICNL U7FN2FH3F6ZBJFBCXZWWW4O5
07-03	1847	Resident	30 chr EAM EIFVUI 3MENFWB6QKHBRO6JFXV5CQRN
07-03	2046	Resident	30 chr EAM for Boat H5RWOC SGTJBJKRLDCLSL7NDKR3X2AG
07-03	2320	Resident	30 chr EAM for Boat H5LPFH UMVHLYQRUY5BMR3CT3L2HB4U
08-03	0146	Blueprint	30 chr EAM EIW6WU Y4OCBY3ZBZBWFFPCWLGEHVRL
08-03	0345	Blueprint	Skyking msg: Kiss time 45 auth SY
08-03	0419	Blueprint	Skyking msg: Seven time 19 auth ZL
08-03	0503	Blueprint	Skyking msg: Deep Purple time 03 auth KW
08-03	1346	Blueprint	30 chr EAM for Pride-43 H57TAV 3CRWWXMP4LL45FOTW76HRM4
08-03	1742	Blueprint	30 chr EAM EIMIHJ ZS2FC7AX3VP3KTGTMTJW5S7JI
08-03	1746	Blueprint	30 chr EAM EIVKZJ XRXQCRRNN6HGP2TMKLESFVANB
08-03	1749	Blueprint	30 chr EAM EIVKZJ XRXQCRRNN6HGP2TMKLESFVANB
08-03	1752	Blueprint	30 chr EAM EIVKZJ XRXQCRRNN6HGP2TMKLESFVANB
08-03	1805	Blueprint	30 chr EAM for Task H5EI4C F32M4I6BUILLFNIX67CEAMM3
08-03	1813	Blueprint	30 chr EAM EIMIHJ ZS2FC7AX3VP3KTGTMTJW5S7JI
08-03	1903	Blueprint	30 chr EAM EINIVG OZPKB6AXORAX5MA6LPSFN6V7
08-03	1923	Blueprint	30 chr EAM for Task H5EMGF VXRRJUSUGDHXGSMGP6IRJYQO
08-03	1929	Blueprint	30 chr EAM EIQMUX CX3ZKSQ3QLKT2TCKX2APG2KS
08-03	1937	Blueprint	30 chr EAM for Task H5PM3X XK3PXLGBK2LYHQPNWSJRFCXG
08-03	1940	Blueprint	30 chr EAM EIIQ2X NPHJVGO4XZSWPERCGILTJW
08-03	2319	Blueprint	30 chr EAM EIXWUJ XZAIQYJWNT4TQGIQKPWB7XZE
09-03	1534	Winnebago	30 chr EAM EIXASI JT3FQZLVGYGCEBMRNN4UPZC
09-03	1538	Winnebago	30 chr EAM EIHGTU 3IXXFNPIJQFJHTYJDWOHQBGIV
09-03	1541	Winnebago	30 chr EAM EIHMRI SG4W74OLDPQGCPZFBHENR3TZ
09-03	1545	Winnebago	30 chr EAM EIYWOT KFPSPG3RELYWRKYTJ6EHPIQ6
09-03	1549	Winnebago	30 chr EAM EI2B6K 4S6QK4BFTLCZC6CICIMHQVGB
09-03	1552	Winnebago	30 chr EAM EILDIP BRN4HYFXRTSJICWNQH4WF6I
09-03	1555	Winnebago	30 chr EAM EIUK7N PNZOESVTT6SKV7QLOVNRXRTL
09-03	1600	Winnebago	30 chr EAM EI76N4 XS6ZQ3QQRDJG5OAC3V6UQREY
09-03	1608	Winnebago	30 chr EAM EI76N4 XS6ZQ3QQRDJG5OAC3V6UQREY
09-03	1610	Winnebago	30 chr EAM EIUK7N PNZOESVTT6SKV7QLOVNRXRTL
09-03	1613	Winnebago	30 chr EAM EILDIP BRN4HYFXRTSJICWNQH4WF6I
09-03	1740	Winnebago	30 chr EAM EIKBNJ Q6NX3L2G6AXLYCIEK5OAEVTQ
09-03	2137	Winnebago	30 chr EAM EIWE6I NWWEMV23L2X4WQ4D26EJDICP
09-03	2147	Winnebago	30 chr EAM EIBO3O TL2WYDIDUHI6KN7H7AG67EIL
10-03	0102	Good News	30 chr EAM for Torchbearer H52XVE U3LSL4GCXV4KZ6ZB3TOGLHK2
10-03	0117	Good News	30 chr EAM for Torchbearer H5ATG4 YAIRHNSMXEG3WKWQRCIWQZKS
10-03	0138	Good News	30 chr EAM H5B7AW YT4TTRAQOZSS74BGTD7IDIICXQXH73 36CHR
10-03	0148	Good News	30 chr EAM for Torchbearer H5R7AJ KFFFSSCG2Q22KH7N6GC6BL6R
10-03	0220	Good News	30 chr EAM EIUUUI VIDE6RHOLUBQDJTX4ECLKSWJ
10-03	0609	Good News	30 chr EAM EISC4G Z5N4UTQZH3LC67NJOIXAG6PH
10-03	0628	Good News	30 chr EAM EI6PLI BSYEJHPBHW3SGSJHHQWAX2EP
10-03	0632	Good News	30 chr EAM EIK7GW 2VOWFY2H6VCC7VHH7JWFQDAL
10-03	0641	Good News	30 chr EAM EIFC3C DZPXFUHRBWUUMKMZ5BEQHXJC
10-03	0645	Good News	30 chr EAM EIUMXC YPEASQ7RD4C3KATW3BYKTDSI
10-03	0656	Good News	30 chr EAM EIEYBN IBUQBKW46UCTVDAUOAOWQ4U
10-03	0700	Good News	30 chr EAM EII5VP PALYTN57NMUU55HT6A2CAZ34
10-03	1400	Good News	60 chr EAM TT2X7G T2JMQCTYRRDUQWKNEIVETREEUJDZIJXZUFVBFQYJRYGLDWXO77AYCH
10-03	1622	Good News	164 chr EAM TTXWMB F2UJDNT7BB53VCZDC677V4VVRNFK7UPUGXIIII5DYAMJIVIRSHUSS2TZ3333VCHUDZ66YZBDQ4 RQ4RHHHHHCXN3UPK77KRP33WNWEFFFFU2WVEFYFRQKYDD7LBCKKKKVILZ7NMP376UOSIWSP WREJLQGNXCAN
10-03	1721	Good News	164 chr EAM TTECKW AO7HUSDOTNXHB4FNLFGMSVGWW7X5KUISI2ENNNNNMIYRTUA4264AKKQI7Q4444SG662N33YN YA2GK2GK6666CN3ZY6AWWADWKKGIGCNNGCVL6CG4FKRR2O4SDDDDVHWOQLFRXTOD

			BZDCZJCZSTTAJZKQXO3
10-03	1852	Good News	36 chr EAM H5XQVF EK5YWOGQX4M4F346BIQSO3EWICBCSE
10-03	2100	Good News	30 chr EAM EILKKI PZJKPTY6N6FTASNTLTWEUZR
10-03	2110	Good News	30 chr EAM EIG4HS VA3LTRXC5PEVUW6JV5S7WLG5
10-03	2126	Good News	30 chr EAM EIKEWK YXZWPY6B3UHZHAXQ2GQJYWBL
10-03	2150	Good News	30 chr EAM EIOD3G YV52FGGLBSB6BFISRND7BIV6
10-03	2201	Good News	30 chr EAM ZMUEEM YAA6MSOHYUF56QS66LACH27W
10-03	2218	Good News	30 chr EAM ZMUOPH VBD76J42VNSL3DCADP5RQFTG
10-03	2303	Good News	30 chr EAM ZMT36V E23345IPE67NOW4MGLYUWQOR
10-03	2358	Good News	30 chr EAM ZMJAJH GC3CFTHJOXXKO6EXAWGEBKYU
11-03	0408	Down Deep	30 chr EAM ZMA4JW RG2SFVTKE4GUAEE3AAFRV4AJY
11-03	0554	Down Deep	30 chr EAM ZMGWBK HASFCC43YJBJY62TNO3Q7PJI
11-03	0602	Down Deep	30 chr EAM ZMGWBK HASFCC43YJBJY62TNO3Q7PJI
11-03	0602	Down Deep	30 chr EAM ZMV77D LXJ4XYCYW2SERCW7VDYCXIL
11-03	0607	Down Deep	30 chr EAM ZMKW4S SJ4WLIZPODCOUU2FKEGXSHWY
11-03	0609	Down Deep	30 chr EAM ZMDR7R 3P7ACMUNR26B3QNYVKIY3MTV
11-03	0611	Down Deep	30 chr EAM ZMQZFE VWKELUUTTPW3DSFBXLVW4CJL
11-03	1346	Down Deep	30 chr EAM for Huge H5QGHV QOLXO4F2ZM75PFWVHCH6BBZF
11-03	1412	Down Deep	30 chr EAM for Huge H5AB6B KHKEFGKORR3SXMTCUS4OONW
11-03	1416	Down Deep	30 chr EAM ZMSBW2 QYJSHDQUA32ODVWITIXBIDU7
11-03	1614	Down Deep	30 chr EAM for Damien, for Safe Deposit H5ZQ47 DQPLTLTJSKRR7RGNO5SCQ4UB
11-03	1655	Down Deep	30 chr EAM ZMVAWC IRCW3PTXDRUX6OKQ5PAOYCNI
11-03	1658	Down Deep	30 chr EAM ZMG3OW 2B7A7RRG4AYCPBXYZ3SNWU4E
11-03	1701	Down Deep	30 chr EAM ZM7VPL KJW6OJBPC7AKK7AO32KO7EWS
11-03	1742	Down Deep	30 chr EAM ZMZUG2 HUTKJDSRWLKUYFPYT6GNAIO4
11-03	1746	Down Deep	30 chr EAM ZMKPAH BMLIKAFEG4VEB2ITZBKWSBXI
11-03	1742	Down Deep	30 chr EAM ZMWMSO BF4NES7DZJWKXY3H3YSD2C4P
12-03	0046	Retailer	30 chr EAM ZMQIHN 34Y7GZTG5AJYVIP3V2K4OHR
13-03	0043	Bearhead	30 chr EAM ZMCUZO EUGVHWIDPQ2AKJ6J3NIPGOWL
13-03	0411	Overbear	30 chr EAM ZMAYGH O55NEFQVHH3OTOLSOTBTRAVL6
13-03	0413	Overbear	30 chr EAM ZMSGVX 7BIKZYH4ZXN2VS3ZIBLQDKV
13-03	0415	Overbear	30 chr EAM ZM7Z7S 7SGKQKJHTEIY2C6EZBTX6WOZ
13-03	0434	Overbear	30 chr EAM ZMHS6R GQHOJW7GP7WBRZNMEXHYK4YA
13-03	0439	Overbear	30 chr EAM ZMHS6R GQHOJW7GP7WBRZNMEXHYK4YA
13-03	0442	Overbear	30 chr EAM ZMAYGH O55NEFQVHH3OTOLSOTBTRAVL6
13-03	0445	Overbear	30 chr EAM ZMSGVX 7BIKZYH4ZXN2VS3ZIBLQDKV
13-03	0509	Overbear	30 chr EAM ZMHS6R GQHOJW7GP7WBRZNMEXHYK4YA
13-03	0512	Overbear	30 chr EAM ZMAYGH O55NEFQVHH3OTOLSOTBTRAVL6
13-03	0515	Overbear	30 chr EAM ZMSGVX 7BIKZYH4ZXN2VS3ZIBLQDKV
13-03	1416	Bearhead	30 chr EAM ZMDOBG 2MLHIKSAEACBM4QFS23EAZ4P
13-03	1522	Bearhead	30 chr EAM ZMRG5T RKDTA6ZRYHKG5UWSJZBAX3J
14-03	0017	Cool Air	30 chr EAM ZM7KZZ OBRUOEFGKJ3VZZIJX272CLE6
14-03	1748	Cool Air	30 chr EAM for ???-79 H5SMYD ONYORRHQDQZMOFEV3LRQHADT3
14-03	1816	Cool Air	30 chr EAM ZM3EFL NFWR3TKGCF7G5E3QRKX7N3Z
15-03	0032	Speed Car	30 chr EAM ZM7BHV APRFE2P2OQT57AGKGNVIREHK
15-03	1538	Speed Car	30 chr EAM ZMFVXL S5TCHUQXZELVXHFEWCCGDV7I
15-03	2033	Speed Car	30 chr EAM ZMAFCX KVTDOO2IKYV5WVTMUIUJTVO
15-03	2136	Speed Car	30 chr EAM for Ape Boy H5QSVL W7ABUZH3Y3LLZWD5BFUETC6
15-03	2152	Speed Car	30 chr EAM for Ape Boy H5F5VQ SU3T6I4YM25MWSRVZIPWDHYZ
16-03	0033	Sunbath	30 chr EAM ZMZA2K VJUJFS427QNPR2QCE6AW2PHR
16-03	0539	Sunbath	30 chr EAM ZMMTC3 XZ2G7EQ3C63I6EBG3ZBIEZTG
16-03	0607	Sunbath	30 chr EAM ZMLXQX OD2LN66ARGQW4HIJEWXFLMER
16-03	1212	Sunbath	30 chr EAM for Ape Boy H5JVAP MB6J6SSS2JAEZC7U6XCUD53X
16-03	1246	Sunbath	30 chr EAM for Ape Boy H5GSLG 2PSEME5UTB7WF2MNOFXUKXIP
16-03	1646	Sunbath	30 chr EAM for Ape Boy H5KOKI BOVSMVPA424CVVH6QBGFNE3E
16-03	1802	Sunbath	30 chr EAM for Ape Boy H5NS7G V54WLMYKLRAVB7F4DVT3YN
16-03	1824	Sunbath	30 chr EAM for Ape Boy H537BC V4J4WST5SVX4QUGFEDJJRYB3
16-03	2002	Sunbath	30 chr EAM for Ape Boy H54QBK BKG3PLAHUJMVMEUMYRLK2Q3AC
16-03	2037	Sunbath	30 chr EAM for Ape Boy H5Z5GJ JGAEYSBKEKAMV3NC7RVYQLHX
16-03	2203	Sunbath	30 chr EAM for Ape Boy H5QBHM NVIPP2YJFBI7XRXJX6UMJKHR

16-03	2223	Sunbath	30 chr EAM for Ape Boy H5GGDC YG3JUEO643EBE3OXY42O3QIV
17-03	0103	Tangerine	30 chr EAM for Dino-97 H53VDV KIONQMURZP6I5QW3KFWBDKTY
17-03	0132	Tangerine	30 chr EAM ZMQCRO VGEFDPGE77OWLAHLTYBRW6NM
17-03	1307	Tangerine	30 chr EAM for Ricardo H5LVF2 7V2T7TMASNC6V45YQSQ7MCGU
17-03	1336	Tangerine	30 chr EAM for Ricardo H5IEPR GC7ABE4DN2N5KF7UKENK24GT
17-03	1445	Tangerine	30 chr EAM for Ricardo H5SSWF BSBDDXQRMJXR3OXUAZEFKWAX
17-03	1534	Tangerine	30 chr EAM for Ricardo H5TY7W 6KEXKK255CZ3WTXJR5PN5NXP
17-03	1713	Tangerine	30 chr EAM for Ricardo YRNQEE 34DLYSN4Q7TX3VRG3KY7QXTX
17-03	1743	Tangerine	30 chr EAM for Ricardo YR5N22 JRDSABLWG4OS5XOJF73G5VOV
17-03	2132	Tangerine	30 chr EAM ZMUWSZ EYFKRKYBUXUALEDGWMSJX76E
18-03	0217	Semi Pro	30 chr EAM ZMEBLT TWUAPGN2GZ5QJKNWGS DR7TQ
18-03	1746	Semi Pro	30 chr EAM ZM42QE YBRFYAKY24EVNEFI2343CQJ5
18-03	1947	Semi Pro	30 chr EAM ZM3DFR RCUKYBRKIWM422GZTCD2NGU3
18-03	2232	Semi Pro	30 chr EAM ZMKMSV 2CVQKJB6X22PMOUOO3OUIWKP
18-03	2343	Semi Pro	25 chr EAM YRV4CT U4ABSVWBYP3TXFATBYM
19-03	0047	Involved	30 chr EAM ZMPOFX QZPOBKNTOEOSOACXVMEU4XBT
19-03	0423	Involved	25 chr EAM YRC2PE VZZDRMBDDPTGTJS52SF
19-03	1949	Involved	30 chr EAM ZMZLKK S62IG2XP6W3OZMRMNTZ6NTHQ
19-03	2047	Involved	30 chr EAM ZMI54U 7ZMQXUVYLG7T4ZX5V3F2WNQY
20-03	0232	???	30 chr EAM ZM53YH IZWM3SYFOVIGX3Y5F632ERJW
20-03	0315	Andrews	Skyking msg: Waterboys time 15 auth PR
21-03	1015	Palm Leaf	30 chr EAM for Prime Beef YRJNFG 6G4NI4PCXVB7OCSPJT4744UE
21-03	1033	Palm Leaf	30 chr EAM for Prime Beef YRMJ2J GMNZCF3OKET3VG4BM4XM2UHI
21-03	1044	Palm Leaf	30 chr EAM for Prime Beef YRL7PN 3C3U6VVFYQOM2QA4QHU3QNHV
21-03	1137	Palm Leaf	30 chr EAM for Prime Beef YRQRVS 7GH45WGPAOHJKBC54XK7DG4
21-03	1152	Palm Leaf	30 chr EAM for Prime Beef YRN7FP R5MMVAMEHE3JO7L4MO3NDAHU
21-03	1212	Palm Leaf	30 chr EAM for Prime Beef YR6ZYL YI5H2XY3VYO7AZHL7A2S3RL2
22-03	0010	Showboat	Skyking msg: Radiohead time 10 auth ZX
22-03	1247	Showboat	30 chr EAM for Decline YR27XH RQQ7FVODEXBJSJNPSVSHVAXF
22-03	1306	Showboat	30 chr EAM for Decline YRVION 6W4EKYFW2UFQCFDQOOAL5TW
22-03	1419	Showboat	38 chr EAM CG5UMQ IFDHCV6FGP2AFRY6CV6FGPRARCV6FGPJ
23-03	1512	Corn Stock	30 chr EAM ZMOPH4 SAHT3SK6YYSJQOSK4HTFXBAC
23-03	2117	Corn Stock	30 chr EAM YRM3P4 NHEABODW467PF4GYYZSSHX5L
23-03	2124	Corn Stock	30 chr EAM YRM3P4 NHEABODW467PF4GYYZSSHX5L
23-03	2333	Corn Stock	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
23-03	2339	???	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0009	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0039	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0109	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0139	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0209	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0239	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0309	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0339	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0409	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0439	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0509	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0539	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0609	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0639	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0709	Semitone	30 chr EAM ZMHOOJ 55IXJLRWKDL7Y3B277QKWVS
24-03	0923	Pool Cue	30 chr EAM ZMD2BB TXY3VCMPIYQICUYDT2FFU4LMY
24-03	1840	Pool Cue	30 chr EAM YRRBQG J2OAI7YDXLLKQHZRICNFH3MR
24-03	1945	Pool Cue	30 chr EAM ZMPYTB IOGRKFLPRNIPQNNIEMGWMCDJ
25-03	1044	Loophole	30 chr EAM ZMUZER UVKNFOKSULFWVBKQROHM3KUZ
25-03	1517	Loophole	30 chr EAM LRRDML BEF2A6DNYZG35KIQBF3TQ6CO
25-03	1733	Loophole	30 chr EAM LRRP7N QG6LC2XG3CHSKPQL3Z36QXWY
25-03	1811	Loophole	36 chr EAM YRFVIR KHSIWZ3LMENKW2JBND7FSQFCOFNKQN
26-03	0023	Curly Top	36 chr EAM YRRUWA AXQIE57KDN2FMCBXRRES5RVMRZ4RFN
26-03	0040	Curly Top	43 chr EAM YRAUNY NFIXVEHGRBKO7QM3PVURBJF5AFUT3AZI2W6JY

26-03	0047	Curly Top	30 chr EAM YR224X N6XCTMGPPJWSHSL3KYUKTRGR
26-03	0103	Curly Top	30 chr EAM for Pre Style? YRJUX YZXEUWR3ZPVVFW6B6EKFIE4X
26-03	0111	Curly Top	30 chr EAM for Pre Style? YRHWX CUQ7E2EWWHUNXSH6YCFAYQOJ
26-03	0128	Curly Top	Skyking msg: Kiss time 28 auth IH
26-03	0130	Curly Top	41 chr EAM YR33SG 3DZ6SZVEHVFTJCAD37PAD47JTUFRLBISE5
26-03	0134	Curly Top	30 chr EAM for Pre Style? YRGCGJ 5EK2GW3LTTKVUQRUGY6V7YEV
26-03	0137	Curly Top	30 chr EAM YRPTG7 LBZJK4BIPGPT5QEBDZMU7N4G
26-03	0201	Curly Top	30 chr EAM LRBQYY B6VXKLN2OIBMQSQC3BV2THN
26-03	2003	Curly Top	30 chr EAM LRYINQ GMPPQFWGOCXHWNF6AMWS275P
27-03	1235	Register	30 chr EAM LRGAXY 2AC6SYKLSWT5NRDPEFLPAFQU
27-03	1348	Register	30 chr EAM for Like YRYUXN OZUB5BR4NXPFEVXGXOE3GQ5
27-03	1413	Register	30 chr EAM for Like YRSSXE SLEFMG65CC2MYV5FU4I3X3UC
27-03	1437	Register	41 chr EAM YRVJFJ WU3HX6OPTJMEGQ3SNOJ3SFQOQ6U5BS7YFKX
27-03	1606	Register	30 chr EAM for Foul Territory YR46ZB UFSW2VPQDFL37UUBWMSRF5V3
27-03	1626	Register	30 chr EAM for Foul Territory YR6NGO YKGVIGFA4DYWJ7XIL5HTKTYO
27-03	1726	Register	30 chr EAM YRVTVX IZLUFEVBYMCJSS2HU5UMKHNH
27-03	1802	Register	30 chr EAM LRA6VD LBWK3TJNX4UJZJLV3KBDN76J
27-03	1832	Register	30 chr EAM for Foul Territory YRW4RJ PFYQGNINHHXTXE5HRSABTCMZ
27-03	2107	Register	30 chr EAM for Foul Territory YRAZUN EJ42OFQSIQXQMVCE7Q6KGCH2
27-03	2128	Register	30 chr EAM for Foul Territory YRHMUK DLNLQL2Q2B6GWOWARCWW7WKJ
28-03	0015	Dogmatic	54 chr EAM YRGZ3G DOYZNE5WCYHNWQSPTLJLVVXLME2FJXQJHTVVQLPVXBTXQHXF
28-03	0029	Dogmatic	30 chr EAM YR6CT5 UC4KCOOZ73SJR3Z6SXDOF5QH
28-03	0044	Dogmatic	30 chr EAM LR3DCW CUCGQRGTVVHUTYH3G4ONC3TD
28-03	0048	Dogmatic	30 chr EAM LR1I2R N7XP347EJCKIKNC57AAHG4RW
28-03	0109	Dogmatic	30 chr EAM LRTNYT 3Q6OGJY6JQQNX4OX6TJG6BFH
28-03	0131	Dogmatic	33 chr EAM YR3HYV YDESRURQAYFM6DBZLQK2Z6Y4ZXO
28-03	1347	Dogmatic	30 chr EAM for Foul Territory YRQNXS R7TIFOA5EYRKW5PX6AE6N6QE
28-03	1455	Dogmatic	52 chr EAM YRKPE3 3FI72JK2ENJ5GUAINBSXDTFC4DQ2VAIR2S7TYVVETB5SE
28-03	1514	Dogmatic	30 chr EAM YROUUF 6HKCHWY6A2SULDK5POUV7CBS
28-03	1537	Dogmatic	30 chr EAM LRF4RY OTZO7ANB4X4Q4OSP427TPUL5
28-03	1540	Dogmatic	30 chr EAM LRDCGU 6XTW2YKCYQP24MOXKD4YWR3F
28-03	1551	Dogmatic	30 chr EAM YRIMUP JARHOMOLSF7O3MHNCTLH4NTO
28-03	1557	Dogmatic	30 chr EAM LRTWWE NMCBWGEAJZVCDNRQH2CZVWNG
28-03	1622	Dogmatic	30 chr EAM LRC7CG FKBSXEDFVJRFIBH5AVYBA3VH
28-03	1630	Dogmatic	30 chr EAM LRTWWE NMCBWGEAJZVCDNRQH2CZVWNG
28-03	1633	Dogmatic	30 chr EAM LRDCGU 6XTW2YKCYQP24MOXKD4YWR3F
28-03	1636	Dogmatic	30 chr EAM LRK2IR RUANGUNX4IFAGLBE35YDL6WI
28-03	1926	Dogmatic	40 chr EAM YRTEO7 AAOXQJPRGZAQLN7K6MKDYGIXYU5GAOHPJX
28-03	1937	Dogmatic	36 chr EAM LRU2V2 L3LZ4NL5GUVJSJB4U5ZMNALW disregard this transmission
28-03	1939	Dogmatic	30 chr EAM LRU2V2 L3LZ4NL5GUVJSJB4U5ZMNALW
28-03	2007	Dogmatic	30 chr EAM LRCQAH WRGOLT4EDDAJQ3PDKK2QF3O4
28-03	2014	Dogmatic	30 chr EAM LRJDAQ IFIJCDARYCCWL553GNCLEKMZ
28-03	2028	Dogmatic	30 chr EAM LRYNTW TDK3A2FMY7K43LOGBMEWVGL5
28-03	2048	Dogmatic	30 chr EAM LRJFPJ SYHV2OBUJNYGVZV4T6RPST6WO
29-03	0013	Moderator	30 chr EAM LR6MUQ NKYT36A7AATNBBSQK4GNFZC
29-03	0031	Moderator	40 chr EAM YR2TJD OMTZTOUG2N3B2OPLUNZCZWDEGO3UY5TSPA
29-03	0034	Moderator	30 chr EAM YR447E CUCULK6V4PYXEM3UXZBNXDCW
29-03	0052	Moderator	30 chr EAM LRXOIR PVHCGNMYUKXG6KPWJ6GKNBZD
29-03	0116	Moderator	30 chr EAM LRTIJY GTRFMRLBOXZEDX623PL3K7YB
29-03	0120	Moderator	36 chr EAM YRDLGY Q4UAWAVG7HSEPGT5KUR2G356I34SFV
29-03	0124	Moderator	30 chr EAM LRO3BR WKT5YBQT4O4CZMQEIYV7RF3P
29-03	1626	Moderator	30 chr EAM for Etching YRJEUF 2UP4UOAOOKXPALCVR2VSIKAE
29-03	1656	Moderator	30 chr EAM LRK7U2 2ZKUKQCVDHY7N5XZVLA6ETLP
30-03	2024	Abolete	30 chr EAM LRCHNO XKAQ3NGFOGGQDKKHQARHFYKE
31-03	0534	Yardbird	30 chr EAM LRFVRH BEOLBENXKVRNZ4AADE6P5VZE

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by JPL, AB, Gwr, WP3, JU, F5JBR

Strategic messages

Russian Military

13443 kHz, 06-03, 1315 UTC
13443 kHz, 06-03, 1319 UTC

13443 kHz, 06-03, 1323 UTC
13443 kHz, 06-03, 1336 UTC
13443 kHz, 06-03, 1339 UTC
13443 kHz, 06-03, 1343 UTC
12606 kHz, 06-03, 0737 UTC
12606 kHz, 06-03, 0740 UTC
12606 kHz, 06-03, 0743 UTC

12606 kHz, 06-03, 0745 UTC

12606 kHz, 06-03, 0748 UTC

12606 kHz, 06-03, 0757 UTC
12606 kHz, 06-03, 0759 UTC
12606 kHz, 06-03, 0806 UTC

12606 kHz, 06-03, 0810 UTC
12832 kHz, 06-03, 0812 UTC
12832 kHz, 06-03, 0817 UTC
12832 kHz, 06-03, 0828 UTC
12832 kHz, 06-03, 0848 UTC
12832 kHz, 06-03, 0851 UTC
12832 kHz, 06-03, 0854 UTC
12832 kHz, 06-03, 1349 UTC

12832 kHz, 06-03, 1509 UTC
5360 kHz, 18-03, 1612 UTC
5096 kHz, 18-03, 1612 UTC
5188 kHz, 18-03, 1612 UTC
5360 kHz, 18-03, 1615 UTC
5096 kHz, 18-03, 1615 UTC
5188 kHz, 18-03, 1615 UTC
7932 kHz, 21-03, 0808 UTC
7853 kHz, 21-03, 0808 UTC
7969 kHz, 21-03, 0808 UTC
8417 kHz, 21-03, 1010 UTC
8417 kHz, 26-03, 1015 UTC
8417 kHz, 26-03, 1020 UTC
8417 kHz, 26-03, 1028 UTC
8417 kHz, 26-03, 1031 UTC
8417 kHz, 26-03, 1035 UTC
8417 kHz, 26-03, 1041 UTC
8417 kHz, 26-03, 1045 UTC
8417 kHz, 26-03, 1050 UTC

XXX XXX WEGI WEGI 69011 TENEOGOD 5467 0325 UTNETOQUP 9831 1516 K
XXX XXX W6BY W6BY 69531 PLAÖOBYS 9698 9434 SAJTOMLN 1194 5275 SUDOLÄD
4724 3872 PAUKGUREL 2544 9184 K
XXX XXX WEGI WEGI 3839 RINGSSUST 3154 6181 K
XXX XXX RGT77 RGT77 59198 STEKLOWATYJ 4613 4910 K
XXX XXX RGT77 RGT77 277GI2 WYHIBANIE 1716 9616 K
XXX XXX TNOF TNOF BNR1 BNR1 64280 ANNEKSIÄ 1748 2336 K
XXX XXX WLHN WLHN 21268 45883 94469 GROTOBRAT 5924 6623 //12981, 13852 kHz
XXX XXX WLHN WLHN 31861 RUVXE 2291 0701 RABOVMYH 9845 3915 //12981, 13852 kHz
XXX XXX WLHN WLHN 20869 TRENAV 3268 0287 STEROChTOK 1843 9563
//12981, 13852 kHz
XXX XXX WLHN WLHN 46252 FAGOBUEK 3316 2745 SLYHOHOLL 6076 0362
//12981, 13852 kHz
XXX XXX WLHN WLHN 20339 17722 PAKTOSAD 6261 2196 SUKOKOFE 6991 5697
//12981, 13852 kHz
XXX XXX WEGI WEGI 94262 SNOPOMAJAe 3026 2613 //12981, 13852 kHz
XXX XXX WEGI WEGI 14965 POWETRxe 6157 1074 URNA 5242 5603 //12981, 13852 kHz
XXX XXX N1DX N1DX F2ET F2ET 15063 09041 RAZUMNICA 7247 5360 UGODLIWOSTX
6922 1224 //12981, 13852 kHz
XXX XXX WLHN WLHN 30564 59085 68320 ODESSA 6926 3464 //12981, 13852 kHz
RDL: XXX XXX WEGI WEGI 89183 94262 SNOPOMAJAe 3026 2613 //14411 kHz
RDL: XXX XXX M7A2 M7A2 07227 45315 PRICHELEC 7470 1892 //14411 kHz
RDL: XXX XXX M7A2 M7A2 64662 31808 NEWRASTENIAe 2521 7342 //14411 kHz
RDL: XXX XXX M7A2 M7A2 37812 72399 TAeGOWYJ 6926 3945 //14411 kHz
RDL: XXX XXX M7A2 M7A2 26183 56603 TELEWIDENIE 6926 3457 //14411 kHz
RDL: XXX XXX M7A2 M7A2 41903 62431 ROSSOSNOB 6801 6694 //14411 kHz
RDL: XXX XXX RGT77 RGT77 31609 34267 STIHIJNOSTX 0027 2402 BOBOBLOK 1556 1281
TROTUAR 0062 3573 //14411 kHz
RDL: XXX XXX M7A2 M7A2 81298 98120 LAWROBUFF 9831 1516 //14411 kHz
XXX ANWF 64505 BEKMANIÄ 5088 5662 K
XXX ANWF 64505 BEKMANIÄ 5088 5662 K
XXX ANWF 64505 BEKMANIÄ 5088 5662 K
XXX ANWF 70853 BEKAÖINYJ 5969 0839 K
XXX ANWF 70853 BEKAÖINYJ 5969 0839 K
XXX ANWF 70853 BEKAÖINYJ 5969 0839 K
XXX WEGI 02549 RUDOLXF 6085 3939 K
XXX WEGI 02549 RUDOLXF 6085 3939 K
XXX WEGI 02549 RUDOLXF 6085 3939 K
XXX TRHD 93136 KRYMOChWAB 7918 5471 K
XXX 1GLN 63LW 00809 KLOPIK 2908 8372 K
XXX FWS6 FN8K 75324 LIFTOKRIP 3534 5564 K
XXX FWS6 FN8K X6MH 51175 WWOZSIP 6035 1264 K
XXX 8H1K 1GLN 63LW 51175 WWOZSIP 6035 1264 K
XXX TRHD 97332 LAZOSKAK 2918 4262 BLOKOBATÄ 8421 4713 K
XXX FWS6 FN8K 99445 WALOKUS 9584 3439
XXX TRHD 34696 ISLAMIST 6409 4693 K
XXX X6MH 1GLN 63LW 13292 JODODSCh 6827 2683 K

REA4: Russian Air Force

10653.5 kHz, 01-03, 0936 UTC
 10653.5 kHz, 01-03, 0936 UTC
 10653.5 kHz, 01-03, 0953 UTC
 10653.5 kHz, 01-03, 0958 UTC

10653.5 kHz, 01-03, 1004 UTC
 10653 kHz, 05-03, 0958 UTC
 10653 kHz, 05-03, 1001 UTC
 10653 kHz, 05-03, 1008 UTC
 10653 kHz, 05-03, 1010 UTC
 10653 kHz, 05-03, 1147 UTC
 10653 kHz, 05-03, 1211 UTC
 10653 kHz, 05-03, 1217 UTC
 10653.5 kHz, 08-03, 1002 UTC
 5293 kHz, 12-03, 0957 UTC
 5293 kHz, 15-03, 0933 UTC
 5293 kHz, 15-03, 0935 UTC
 5293 kHz, 15-03, 0936 UTC
 5293 kHz, 15-03, 0938 UTC
 5293 kHz, 15-03, 0942 UTC

5293 kHz, 15-03, 0945 UTC
 5293 kHz, 15-03, 0958 UTC
 5293 kHz, 21-03, 1001 UTC
 5293 kHz, 21-03, 1100 UTC
 5293 kHz, 21-03, 1106 UTC
 5293 kHz, 21-03, 1202 UTC
 5853.5 kHz, 21-03, 1527 UTC
 5293 kHz, 22-03, 0945 UTC

5293 kHz, 22-03, 0949 UTC
 5293 kHz, 22-03, 0959 UTC
 5293 kHz, 26-03, 1637 UTC
 5293 kHz, 26-03, 0940 UTC
 5293 kHz, 26-03, 0942 UTC
 5293 kHz, 26-03, 0946 UTC

5293 kHz, 26-03, 0950 UTC
 5293 kHz, 26-03, 0957 UTC

XXX XXX MSK7 MSK7 91416 GAMOSTOB 7019 6938 K
 XXX XXX MSK7 MSK7 03161 STAZIYa 3144 9103 K
 XXX XXX MSK7 MSK7 39416 NATROPENS 2187 1321 MOTOPIT 3154 9103 K
 XXX XXX MSK7 MSK7 96349 NORA 3795 5751 MOREHODEC 4712 2074
 NEZARONNY 8471 5386 K
 XXX XXX MSK7 MSK7 64748 WYEMONEGA 7505 9057 K
 XXX XXX 1ShchRF 1ShchRF 95069 SOWETNIK 1582 5648 K
 XXX XXX 1ShchRF 1ShchRF 17307 PYuZhOPESO 4781 5058 K
 XXX XXX 1ShchRF 1ShchRF 57761 ROMBOWYJ 6700 0303 K
 XXX XXX 1ShchRF 1ShchRF 93915 TUROSIM 4787 6053 URYuKOREJN 3356 5331 K
 XXX XXX 1ShchRF 1ShchRF 09950 IRISOBATYa 3562 4758 DEBIL'NYJ 8105 7288 K
 XXX XXX 1ShchRF 1ShchRF 26070 UChENIE 6638 3511 PROMShchIK 4387 2129 K
 XXX XXX 1ShchRF 1ShchRF 96216 SRUBOSIM 8173 8017 K
 XXX XXX 1ShchRF 1ShchRF 52144 RYNOChNYJ 8112 9079
 XXX XXX 1ShchRF 1ShchRF 67100 OBODOLYaZG 5390 8757 K
 XXX XXX MSK7 MSK 82146 SPASOHAN 8585 6853 K
 XXX XXX MSK7 MSK 83549 LAKOFUKO 2923 1949 K
 XXX XXX MSK7 MSK 60316 SIPLYJ 7600 6515 K
 XXX XXX MSK7 MSK7 61652 WALAAMOW 4001 6218 K
 XXX XXX MSK7 MSK 73833 APORTOWYJ 6467 0272 SYNOSHIP 2823 1949 POSTOFRA
 600 6715 POSLUSHAN'E 4001 6218 K
 XXX XXX MSK7 MSK 39646 SOUSOROW 1256 1818 K
 XXX XXX 1ShchRF 1ShchRF 18507 PUKOROT 4455 2382 K
 XXX XXX 1ShchRF 1ShchRF 87718 POKAZYWAN'E 7193 1075 K
 XXX XXX 1ShchRF 1ShchRF 12481 NASMEShKA 2858 2167 K
 XXX XXX 1ShchRF 1ShchRF 84644 LUCHOWEK 4148 8681 K
 XXX XXX 1ShchRF 1ShchRF 65609 REZhOFLOT 9088 2511 K
 XXX XXX 1ShchRF 1ShchRF 35026 PLENONEM 4882 8228 K
 XXX XXX MSK7 MSK7 77120 SGIBOPAS 3551 6709 MORZhOPAH 4291 2187
 KNUTOPOL 4544 7173 OChERChIWAN'E 8236 7458 K
 XXX XXX MSK7 MSK7 12060 PODMOGA 1614 3807 K
 XXX XXX 1ShchRF 1ShchRF 42561 SRAMOLYaP 8415 2257 K
 i.p. 1646 STYaZhENIE 8273 9009 K
 XXX XXX MSK7 MSK7 87351 SWOEKOSHtNYJ 5527 4391 K
 XXX XXX MSK7 MSK7 77741 ORGAZM 2221 9932 K
 XXX XXX MSK7 MSK7 73504 SORT 5569 8073 STEROBES 8273 9009 SOLNYaEWOROT
 5527 4391 PLYaSOFANG 2221 9932 K
 XXX XXX MSK7 MSK7 34845 SNOBOZhar 2948 3969 K
 XXX XXX 1ShchRF 1ShchRF 20399 SEKSTA 8467 2553 K

Note the repetitions of number groups in the 4-part message from previous messages;

0937z STYaZhENIE 8273 9009
 0946z STEROBES 8273 9009
 0942z ORGAZM 2221 9932
 0946z PLYaSOFANG 2221 9932

Russian Navy**7815 kHz, 19-03, 0758 UTC. RBL88 wkg RFN77 and RGR99**

XXX LR43 TEHNIÔESKAÂ PROWERKA 592 K
 XXX LR43 TEHNIÔESKAÂ PROWERKA 592 K
 DE RFN77 ZSA 3 K
 RFN77 DE RBL88 R XXX ? K
 DE RFN77 ZSA 3 K
 RFN77 DE RBL88 ZSA 3 R K
 DE RGR99 R XXX ZSA 1 K
 RGR99 DE RBL88 ZSA 1 R K

5441 kHz, 21-03, 0945UTC	XXX XXX RJV RJV 94266 WETROTRUS 6723 5988 K
5441 kHz, 21-03, 1009 UTC	XXX XXX RJV RJV 20596 KLUBOWOD 2863 4446 K
5441 kHz, 21-03, 1256 UTC	XXX XXX RJV RJV 97624 BOKOZhGUT 2076 9357 K
7815 kHz, 22-03, 0800 UTC	RBL88 wkg RFN77, RGR99. XXX LR43 TEHNIÔESKAÂ PROWERKA 592 K
6841 kHz, 29-03, 0750 UTC	RGR wkg RGR90. RGR90 R. XXX 26507 KARMUT 1328 5299 K
7815 kHz, 29-03, 0803 UTC	XXX LR43 TEHNIÔESKAÂ PROWERKA 592 K
7815 kHz, 27-03, 0806 UTC	RBL88 wkg RFN77 and RGR99. XXX LR43 TEHNIÔESKAÂ PROWERKA 592 K

Monolith Stations

S28 Buzzer

4625 kHz, 01-03, 1413 UTC	ANVF 97625 KYeJFOSYeG 8939 6116
4625 kHz, 01-03, 1420 UTC	ANVF 87871 LYeKOVYa 1614 1792
4625 kHz, 01-03, 1425 UTC	ANVF 65634 GYeNOLOM 1563 7087
4625 kHz, 01-03, 1427 UTC	ANVF 65033 KVASOVAR 7787 0696
4625 kHz, 01-03, 1428 UTC	ANVF 91031 GLIFOKOKK 0328 4743
4625 kHz, 01-03, 1432 UTC	ANVF 92443 BAKSOVDOH 2448 1565
4625 kHz, 01-03, 1434 UTC	ANVF 13734 DOL'NIJ 7639 7948
4625 kHz, 01-03, 1436 UTC	ANVF 47744 KITYeNOK 3357 0082
4625 kHz, 01-03, 1438 UTC	ANVF 64801 ARAPOHAM 2211 1743
4625 kHz, 01-03, 1439 UTC	ANVF 76613 VATNIK 1141 5996
4625 kHz, 01-03, 1446 UTC	ANVF 94514 BALOZhNYeC 4118 0141 - 0141 read as 141
4625 kHz, 01-03, 1448 UTC	ANVF 29333 VOSKOFORT 3990 0013
4625 kHz, 01-03, 1450 UTC	ANVF 04358 ZhATKA 8124 7730
4625 kHz, 01-03, 1518 UTC	ANVF 66442 LYeNCh 4399 9344
4625 kHz, 01-03, 1521 UTC	ANVF 65260 ANOKOMOR' 9017 5207

S30 Pip

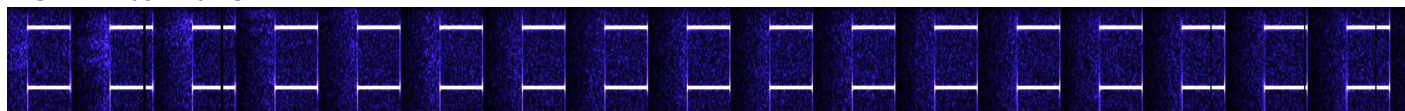
5448 kHz, 08-03, 1129 UTC	8S1Shch 77057 YePITIM'Ya 2764 6052
5448 kHz, 08-03, 1130 UTC	8S1Shch 13050 DEROBLYuM 0401 5682
5448 kHz, 12-03, 1203 UTC	8S1Shch 50468 V'YuNOZEV 0883 1696
5448 kHz, 12-03, 1206 UTC	8S1Shch 23564 61422 KRUPOFAJL 5665 4096
5448 kHz, 18-03, 1132 UTC	8S1Shch 87572 BOROVOJ 1248 7970
5448 kHz, 18-03, 1331 UTC	8S1Shch 68619 KONOKRAD 8176 5112
3756 kHz, 18-03, 1603 UTC	Dlya: 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GZ KZI' TShchShchs
5448 kHz, 21-03, 0940 UTC	8S1Shch 06692 KUSODAR 1979 2572
5448 kHz, 21-03, 1003 UTC	8S1Shch 60928 KOMOMUAR 4995 1615
5448 kHz, 21-03, 1200 UTC	27Shch' N1DU 53OB 78MV DYeAY JH'J 12CI 79AJ ShchT3O CIHS
5448 kHz, 21-03, 1253 UTC	i.p. -YeLICA 0824 1259 - partial capture
5448 kHz, 21-03, 1352 UTC	8S1Shch 70964 LUCKOMAI 1643 4745

S32 Squeaky Wheel

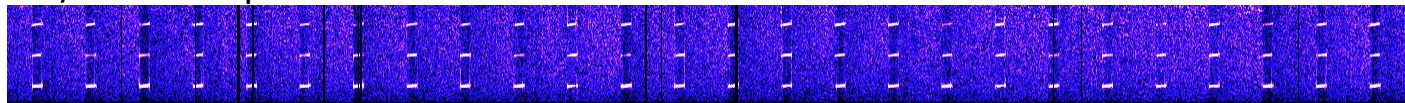
5473 kHz, 08-03, 1134 UTC	Al'fa-45 41915 LYeVYJ 2362 2556
5473 kHz, 12-03, 1210 UTC	Al'fa-45 60734 DZhUTOKRYaZh 5202 9705
5473 kHz, 18-03, 1136 UTC	Al'fa-45 99114 MORYaCKIJ 1171 0201
5473 kHz, 18-03, 1334 UTC	Al'fa-45 17168 LYeZhAN'Ye 1145 9874
5473 kHz, 21-03,0942 UTC	Al'fa-45 45697 BYeZRABOTNYJ 1200 4412
5473 kHz, 21-03,1010 UTC	Al'fa-45 12211 VKUSOHLAM 3516 1844
5473 kHz, 21-03,1255 UTC	Al'fa-45 15962 NIMBOVAR 1146 7156
5473 kHz, 21-03,1356 UTC	Al'fa-45 91818 IRAKOLAOS 9989 3800

Markers

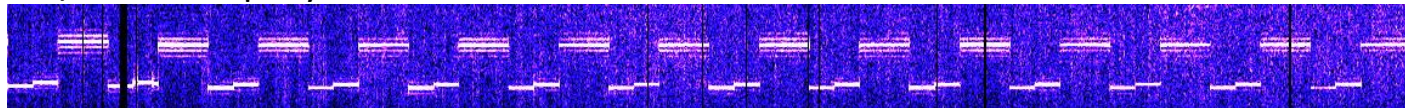
4182 kHz Dash marker



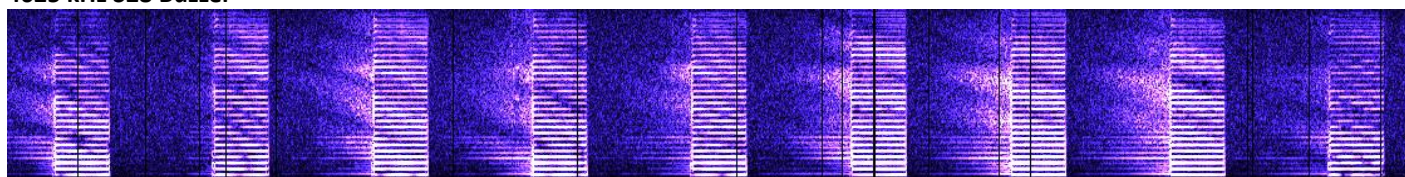
3756/5448 kHz S30 Pip



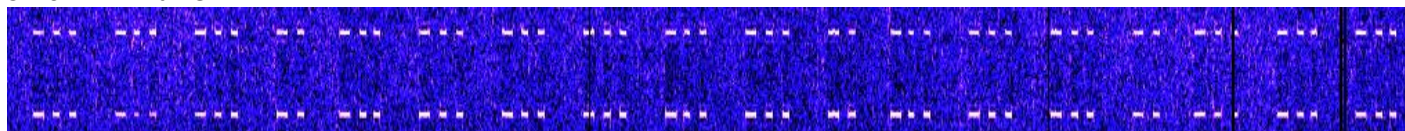
3828/5473 kHz S32 Squeaky Wheel



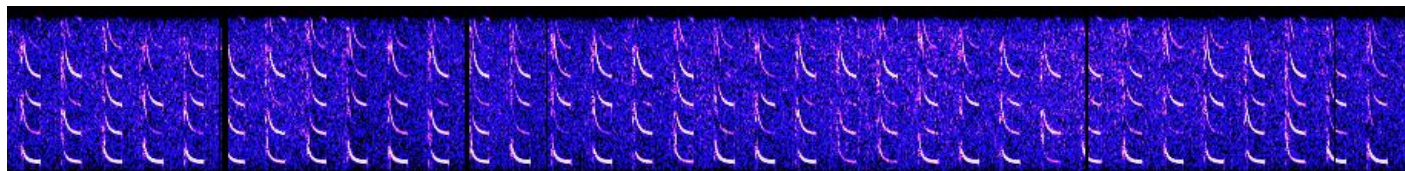
4625 kHz S28 Buzzer



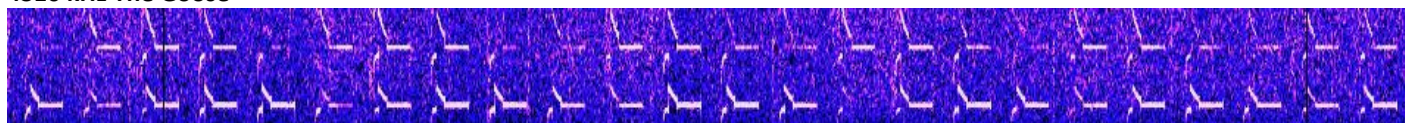
3240 kHz D marker



4020 kHz Air Horn



4310 kHz The Goose



RMv/RNv/RNAv/RAv - Russian military voice transmissions

RMv – Russian Military

5310 kHz, 12-03, 0952 UTC Ya Patron-79 primite komandu ZTP ZDB ZDN ShchYT4

3330 kHz, 10-03, 2027 UTC, c/s ANTEJ52

3330 kHz, 11-03, 2020 UTC, c/s IRIS97

3330 kHz, 13-03, 2002 UTC, c/s WILKA27

3330 kHz, 14-03, 1944 UTC, c/s SKLAD08

3330 kHz, 15-03, 1803 UTC, c/s TOMAT65

3330 kHz, 16-03, 1852 UTC, c/s KORPUS24

3330 kHz, 16-03, 1934 UTC, c/s KORPUS24

3330 kHz, 16-03, 1742 UTC, c/s NIKELX32

3330 kHz, 16-03, 2021 UTC, c/s NIKELX32

M32 - Russian / CIS Military CW Stations

7772 kHz, 19-03, 0700 UTC. 8T1Y wkg 3QD3

QTC 16 14 19 0830 = ZDM =

36954 58087 01631 38142 68876 65624 11954 98281 21211 78093

52654 11266 13610 AR

M32a - Russian Navy (Voyenno-Morskoy Flot Rossii)

4973 kHz, 10-03, 1008 UTC. RIT: Russian Navy, Severomorsk

01218 40013 00001 01824 30009 00002 01824 30010 00005 01824

50015 00006 01824 50014 00102 01824 30010 AR

3356 kHz, 26-03, 1800 UTC

RBL88 wkg REO4, RGR49, RGR87, RGR88, RGR89, RGR90, RGR91, RGR92, RGR93, RGR94, RGR95, RGR96, RGR97, RGR98

M32b - Russian Naval Aviation (Aviatsiya Voenno-morskogo Flota Rossii)

8816 kHz, 06-03, 0725 UTC

RJF94 RJC38 DE 52952 QTO 0706 QRD XLWF XLMD QRE 1005 QBD 0445 K

QTH 16622 13334 QTR 0755 QBG 5800 K

QAY XLPB 0858 QRE XLWF 0950 K

QQM XLWF 0950 SK

8816 kHz, 06-03, 0736 UTC

RJC38 RJF94 DE 54478 QTO 1721 QRD XLMD XLAA QBD 0430 QRE 1854 K

QQM XLMD 1855 SK

8816 kHz, 12-03, 0717 UTC

RJC38 RJF94 DE 54478 QTO 0710 QRD XLWF XLMD QBD 0600 QRE 0940 K

QQQ ULPE 0804 QBG 230 K

QAY XLPB 0834 QBD 0430 QRE XLWF 0920 K

QQM XLWF 0921 SK

8816 kHz, 12-03, 1127 UTC

RJC38 RJF94 DE 54478 QTO 1117 QRD XUMO XLWF QBD 0500 QRE 1220 K

QQM XUMO 1217 SK

8816 kHz, 12-03, 1136 UTC

RJF94 RJC38 DE 09918 QTO 1125 QRD XUDE XLMD QRE 1445 QBD 0700 K

QTH 16456 13429 QTR 1227 QBG 7000 QBD 0600 K

QTH 16029 14729 QTR 1329 QBG 7000 QBD 0500 QRE XUDE 1435 K

QQM XUDE 1445 SK

8816 kHz, 12-03, 1555 UTC

RJF94 RJC38 DE 54485 QTO 1541 QRD XLMD XLAA QBD 0500 QRE 1700 K

8816 kHz, 12-03, 1750 UTC

RJC38 RJF94 DE 54478 QTO 1735 QRD XLMD XLWF QBD 0600 QRE 2005 K

QQQ ULPE 1850 QBD 0430 QRE XLMD 1950 K

QQM XLMD 1952 SK

8816 kHz, 14-03, 0820 UTC

RJF94 RJC38 DE 54485 QTO 0810 QRD XRKE XLMD QBD 1100 QRE 1325 K
QQL ULPE 0910 QBD 0900 QBG 7000 K
QAY XLPB 0945 QBD 0810 QBG 7000 K
QQL XLWC 1013 QBD 0800 K
QTH 15346 13829 QBD 0655 QBG 8250 K
QTH 14815 14107 QBD 0550 QRE 1305 K
QQM XRKE 1256 SK

8816 kHz, 21-03, 0749 UTC

RJC38 RJF94 DE 09912 QTO 0738 QRD XRRC XLWF QRE 1040 QBD 0630 K
QTH 15420 13814 QTR 0850 QBG 7000 QBD 0530 K
QTH 14949 14105 QTR 0944 QBG 7000 QBD 0430 QRE XRRC 1055 K
QQM XRRC 1058 SK

8816 kHz, 21-03, 1316 UTC

RJF94 RJC38 DE 45385 QTO 1310 QRD XLLV XLMD QBD 0500 QRE 1450 K
QTH 16244 13313 QTR 1410 QBG 9150 QRE XLLV 1450 K
QQM XLLV 1450 SK

8816 kHz, 22-03

RJF94 RJC38 DE 45385 QTO 1608 QRD XLMD XLLV QBD 0500 QRE 1748 K
QTH 16441 13419 QTR 1710 QBG 9150 QRE XLMD 1815 K
QQM XLMD 1811 SK

8816 kHz, 26-03, 0747 UTC

RJC38 RJF94 DE 52956 QTO 0741 QRD XLAA XLMD QRE 0930 QBD 0430 K
QBD 0330 QBG 5800 QRE XLAA 0940 K
QQM XLAA 0932 SK

8816 kHz, 26-03, 0935 UTC

RJF94 RJC38 DE 54478 QTO 0930 QRD XUWE XLMD QBD 0800 QRE 1230 K
QQL ULPE 1026 QBG 7600 K
QAY XLPB 1102 QBD 0625 K
QQL ULWC 1129 QBG 7300 QRE XUWE 1235 K
QQM XUWE 1233 SK

8816 kHz, 26-03, 1249 UTC

RJC38 RJF94 DE 52956 QQM XLMD 1249 SK

8816 kHz, 26-03, 1606 UTC

RJF94 RJC38 DE 54478 QTO 1559 QRD XLMD XUMO QBD 0800 QRE 1839 K
QQL ULWC 1645 QBG 7600 K
QAY XLPB 1717 QBD 0630 K
QQL ULPE 1749 QBG 7900 QRE XLMD 1845 K

13975 kHz, 21-03, 0714 UTC. RAL2: Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 1

RAL2 wkg 4 outstations RDU2, RFH2, RHW2, RBL71

13975 kHz, 21-03, 0720 UTC. RHW2: Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 1

RHW2 wkg RAL2. Traffic sent on frequency FW7 = 12737 kHz at 0723 UTC

13975 kHz, 21-03, 1100 UTC. RAL2: Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 1

RAL2 wkg RFH2, RDU2, RHW2, RBL71

13975 kHz, 22-03, 0703 UTC. RAL2: Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 1

RAL2 wkg RFH2, RDU2, RHW2, RBL71

4979 kHz, 20-03, 1903 UTC. RAL2: Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 2
RAL2 wkg RBI2, RGH2, RBL673

10263 kHz, 21-03, 0706 UTC. RAL2: Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 2
RAL2 wkg RBI2, RGH2, RHQ2, RBL66, RBL673

10263 kHz, 21-03, 1105 UTC. RAL2: Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 2
RAL2 wkg RBI2, RGH2, RHQ2, RBL66, RBL673

10263 kHz, 22-03, 0700 UTC. RAL2: Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 2
RAL2 wkg RBI2, RGH2, RHQ2, RBL66, RBL673

4979 kHz, 21-03, 0700 UTC. RAL2 : Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 3
RAL2 wkg 4 outstations RKA2, RLO2, RMW2, RHG2

4979 kHz, 21-03, 1103 UTC. RAL2 : Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 3
RAL2 wkg RKA2, RLO2, RMW2, RHG2

4979 kHz, 22-03, 0702 UTC. RAL2 : Russian naval air, Flotilla Caspian Sea, Astrakhan – Network 3
RAL2 wkg RKA2, RLO2, RMW2, RHG2

LOGS SECTION

The logs are sorted on Code (designator), date and time (UTC)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
---	7050	2-3	1200	Sat	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	7055	2-3	1200	Sat	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	4182	2-3	1546	Sat	Dash marker //7052 kHz	USB	(AB)
---	7052	2-3	1546	Sat	Dash marker //4182 kHz	USB	(AB)
---	3012	2-3	1846	Sat	Goose marker	USB	(AB)
---	3240	2-3	1846	Sat	D-marker	USB	(AB)
---	4020	2-3	1846	Sat	Air Horn marker	USB	(AB)
---	4182	2-3	1846	Sat	Dash marker	USB	(AB)
---	4641	5-3	1212	Tue	North Korean Military i.p. VV BM2 (x3) DE HPT (x3) QRU 4890 4890 SK SK T T	CW	(JPL-HK)
---	3551.2	6-3	1256	Wed	VVV (x3) 4VJ (x3) DE XB7 (X2) CK 3864 CK 3864 = = 3DU 36A 4D7 TDTT ...	CW	(JPL-HK)
---	3447.5	6-3	1618	Wed	North Korean Military i.p.: R1EO 1212R300005 K ABV = 372R120999R121212R300005 K	CW	(JPL-CHN)
---	3201	6-3	1932	Wed	North Korean Military i.p.: VVV JX8 (x3) DE JCS (x2) 8R AS DEE Z .. QRV K	CW	(JPL-HK)
---	3291	6-3	1948	Wed	North Korean Military i.p.: VVV 3B9 (X3) DE GJU (X3) CT RU 1831 1831 VA VA T T	CW	(JPL-HK)
---	7050	10-3	0930	Sun	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	7055	10-3	0930	Sun	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	3002.6	10-3	1435	Sun	Beacon N, ca every 7 secs. (ex 3806.2 kHz)	CW	(JPL-J)
---	3002.6	10-3	1715	Sun	Beacon N, ca every 7 secs. (ex 3806.2 kHz)	CW	(JPL-J)
---	3127	11-3	1448	Mon	North Korean Military i.p. VVV ZON (x3) DE 3BN (x2) QRU = 9883 9883 SK SK T T	CW	(JPL-J)
---	3002.6	13-3	1738	Wed	Beacon N, every 7 sec	CW	(JPL-KOR)
---	3002.6	13-3	1750	Wed	Beacon N, evert 7 sec.	CW	(AB)
---	7050	14-3	1300	Thu	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	7055	14-3	1300	Thu	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	3002.6	16-3	1432	Sat	Beacon N, ca every 7 secs followed by brief morse (ca 5 secs)	CW	(AB)
---	4182	16-3	1527	Sat	Dash marker	USB	(AB)
---	3240	16-3	1537	Sat	D marker	USB	(AB)
---	4020	16-3	1548	Sat	Air Horn marker	USB	(AB)
---	4310	16-3	1550	Sat	Goose marker	USB	(AB)
---	3002.6	18-3	1402	Mon	Beacon N, every 7 secs. Negative keying on 3003.1 kHz	CW	(AB-J)
---	3002.6	18-3	1658	Mon	Beacon N, every 7 secs. Negative keying on 3003.1 kHz	CW	(AB-J)

---	3731	18-3	2158	Mon	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	7831	19-3	1337	Tue	Unid i.p. 21101 01112 28911 18951 98436 98436 80419 73901 14703 ... = = 002 002 10 10 000	CW	(F5JBR)
---	7050	19-3	1520	Tue	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	7055	19-3	1520	Tue	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	7050	20-3	1137	Wed	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	7055	20-3	1137	Wed	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	7050	23-3	1207	Sat	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	7055	23-3	1207	Sat	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	4182	23-3	1659	Sat	Dash channel marker	USB	(AB)
---	4945	25-3	0847	Mon	Korean Military i.p. VVV UMG (x3) DE 37H (x2) QRU 5339 3 5339 SK SK 00	CW	(JPL-J)
---	7055	30-3	0856	Sat	Ukrainian-Russian propaganda war. Propaganda messages from both sides + music, shouting, jamming, swearing	LSB	(AB)
---	4182	30-3	1705	Sat	Dash channel marker	USB	(AB)
DPRK	10300	7-3	0845	Thu	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	13451	17-3	1735	Sun	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	7679	18-3	1359	Mon	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB-J)
DPRK	14850	23-3	1413	Sat	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
E06	19325	7-3	0700	Thu	864 297 53 06371 86966 41873 ... 95578 06154 96137 297 53 00000	USB	(AB-QAT)
E06	5186	7-3	2030	Thu	891 472 52 12265 10965 47839 ... 53234 05124 95732 472 52 00000 Windows shut down sound	USB	(AB)
E06	16230	8-3	0600	Fri	864 297 53 06371 86966 41873 ... 95578 06154 96137 297 53 00000	USB	(AB-RUS)
E06	19325	8-3	0700	Fri	864 297 53 06371 86966 41873 ... 95578 06154 96137 297 53 00000	USB	(AB-RUS)
E06	5197	8-3	2130	Fri	634-967/42=45678	USB	(HFD)
E06	5197	8-3	2130	Fri	634 967 42 45678 68475 69385 ... 23648 23936 26389 967 42 0000 Windows shut down sound	USB	(AB)
E06	16230	21-3	0600	Thu	864 129 50 80767 10446 38826 ... 90484 18911 32779 129 50 00000	USB	(AB/HFD-RUS)
E06	19325	21-3	0700	Thu	864 129 50 80767 10446 38826 ... 90484 18911 32779 129 50 00000	USB	(HFD-RUS)
E06	5186	21-3	2030	Thu	891 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows shut down sound	USB	(AB)
E06	16230	22-3	0600	Fri	864 129 50 80767 10446 38826 ... 90484 18911 32779 129 50 00000	USB	(AB)
E06	19325	22-3	0700	Fri	864 129 50 80767 10446 38826 ... 90484 18911 32779 129 50 00000	USB	(AB)
E06	5179	22-3	2130	Fri	634 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)

E07	19118	1-3	1100	Fri	149 149 149 000	USB	(AB-RUS/HFD-RUS)
E07	17418	1-3	1120	Fri	149 149 149 000	USB	(AB-RUS/HFD-RUS)
E07	10112	2-3	0700	Sat	111 111 111 000	USB	(AB)
E07	11112	2-3	0720	Sat	111 111 111 000	USB	(AB)
E07	10112	3-3	0700	Sun	111 111 111 000	USB	(AB)
E07	11112	3-3	0720	Sun	111 111 111 000	USB	(AB)
E07	10651	4-3	2000	Mon	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB-RUS/MPJ-RUS/RL/HFD)
E07	9151	4-3	2020	Mon	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB-RUS/MPJ-RUS/RL/HFD)
E07	7651	4-3	2040	Mon	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB/RL/HFD)
E07	14942	5-3	0700	Tue	310 310 310 1 4489 74 4489 74 93544 82814 38544 ... 41120 84370 11756 000 000	USB	(AB-RUS)
E07	16142	5-3	0720	Tue	310 310 310 1 4489 74 4489 74 93544 82814 38544 ... 41120 84370 11756 000 000	USB	(AB-RUS)
E07	19118	5-3	1100	Tue	149 149 149 000	USB	(AB-RUS)
E07	17418	5-3	1120	Tue	149 149 149 000	USB	(AB-RUS/MPJ-RUS)
E07	10321	6-3	1800	Wed	318 318 318 1 598 239 598 239 97316 15318 59503 ... 83113 79802 36069 000 000	USB	(AB/MPJ/HFD)
E07	9121	6-3	1831	Wed	318 318 318 1 598 239 598 239 97316 15318 59503 ... 83113 79802 36069 000 000	USB	(AB/MPJ/HFD)
E07	7821	6-3	1902	Wed	318 318 318 1 598 239 598 239 97316 15318 59503 ... 83113 79802 36069 000 000	USB	(AB/MPJ/HFD)
E07	10651	6-3	2000	Wed	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB/MPJ/RL)
E07	9151	6-3	2020	Wed	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB/MPJ/RL)
E07	7651	6-3	2040	Wed	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB/RL)
E07	10112	7-3	1400	Thu	111 111 111 000	USB	(AB/HFD)
E07	16284	7-3	1410	Thu	328 328 328 000	USB	(AB/MPJ/HFD)
E07	11112	7-3	1420	Thu	111 111 111 000	USB	(AB/HFD)
E07	14854	7-3	1430	Thu	328 328 328 000	USB	(AB/HFD)
E07	14942	8-3	0700	Fri	310 310 310 1 4489 74 4489 74 93544 82814 38544 ... 41120 84370 11756 000 000	USB	(AB-RUS)
E07	16142	8-3	0720	Fri	310 310 310 1 4489 74 4489 74 93544 82814 38544 ... 41120 84370 11756 000 000	USB	(AB-QAT)
E07	18042	8-3	0740	Fri	310 310 310 1 4489 74 4489 74 93544 82814 38544 ... 41120 84370 11756 000 000	USB	(AB-QAT)
E07	19118	8-3	1100	Fri	149 149 149 000	USB	(MPJ)
E07	17418	8-3	1120	Fri	149 149 149 000	USB	(MPJ)
E07	10112	9-3	0700	Sat	111 111 111 000	USB	(AB/HFD)
E07	11112	9-3	0720	Sat	111 111 111 000	USB	(AB/HFD)
E07	16284	9-3	1410	Sat	328 328 328 000	USB	(AB-QAT/MPJ)
E07	14854	9-3	1430	Sat	328 328 328 000	USB	(AB/MPJ)
E07	10112	10-3	0700	Sun	111 111 111 000	USB	(AB)
E07	11112	10-3	0720	Sun	111 111 111 000	USB	(AB)
E07	10112	10-3	1400	Sun	111 111 111 000	USB	(AB/MPJ)
E07	11112	10-3	1420	Sun	111 111 111 000	USB	(AB/MPJ)
E07	10321	10-3	1800	Sun	318 318 318 1 598 239 598 239 97316 15318 59503 ... 83113 79802 36069 000 000	USB	(MPJ)
E07	9121	10-3	1831	Sun	318 318 318 1 598 239 598 239 97316 15318 59503 ... 83113 79802 36069 000 000	USB	(MPJ)

E07	7821	10-3	1902	Sun	318 318 318 1 598 239 598 239 97316 15318 59503 ... 83113 79802 36069 000 000	USB	(MPJ)
E07	10651	11-3	2000	Mon	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB-RUS/MPJ)
E07	9151	11-3	2020	Mon	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB-RUS/MPJ)
E07	7651	11-3	2040	Mon	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB)
E07	14942	12-3	0700	Tue	310 310 310 000	USB	(AB-RUS)
E07	16142	12-3	0720	Tue	310 310 310 000	USB	(AB-RUS)
E07	19118	12-3	1100	Tue	149 149 149 1 487 102 487 102 70382 99152 94393 ... 07729 50396 13166 000 000	USB	(AB-RUS/MPJ)
E07	17418	12-3	1120	Tue	149 149 149 1 487 102 487 102 70382 99152 94393 ... 07729 50396 13166 000 000	USB	(AB-RUS/MPJ)
E07	15918	12-3	1140	Tue	149 149 149 1 487 102 487 102 70382 99152 94393 ... 07729 50396 13166 000 000	USB	(AB-AUT/MPJ)
E07	10321	13-3	1800	Wed	318 318 318 1 598 239 598 239 97316 15318 59503 ... 83113 79802 36069 000 000	USB	(AB/MPJ)
E07	9121	13-3	1831	Wed	318 318 318 1 598 239 598 239 97316 15318 59503 ... 83113 79802 36069 000 000	USB	(AB/MPJ)
E07	7821	13-3	1902	Wed	318 318 318 1 598 239 598 239 97316 15318 59503 ... 83113 79802 36069 000 000	USB	(AB/MPJ)
E07	10651	13-3	2000	Wed	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB/MPJ/RL)
E07	9151	13-3	2020	Wed	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB/MPJ/RL)
E07	7651	13-3	2040	Wed	616 827 142 827 142 65226 59083 59225 ... 58716 08532 17575 000 000	USB	(AB/RL)
E07	10112	14-3	1400	Thu	111 1 642 93 67101 74210 05323 ... 29766 27145 27645 000 000	USB	(MPJ)
E07	16284	14-3	1410	Thu	328 328 328 000	USB	(MPJ/HFD)
E07	11112	14-3	1420	Thu	111 1 642 93 67101 74210 05323 ... 29766 27145 27645 000 000	USB	(MPJ)
E07	14854	14-3	1430	Thu	328 328 328 000	USB	(MPJ/HFD)
E07	12112	14-3	1440	Thu	111 1 642 93 67101 74210 05323 ... 29766 27145 27645 000 000	USB	(MPJ)
E07	14942	15-3	0700	Fri	310 310 310 000	USB	(AB)
E07	16142	15-3	0720	Fri	310 310 310 000	USB	(AB)
E07	19118	15-3	1100	Fri	149 149 149 1 487 102 487 102 70382 99152 94393 ... 07729 50396 13166 000 000	USB	(AB-RUS/MPJ)
E07	17418	15-3	1120	Fri	149 149 149 1 487 102 487 102 70382 99152 94393 ... 07729 50396 13166 000 000	USB	(AB-RUS/MPJ)
E07	15918	15-3	1140	Fri	149 149 149 1 487 102 487 102 70382 99152 94393 ... 07729 50396 13166 000 000	USB	(AB-G/MPJ)
E07	10112	16-3	0700	Sat	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	11112	16-3	0720	Sat	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	12112	16-3	0740	Sat	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	16284	16-3	1410	Sat	328 328 328 000	USB	(AB/MPJ/RL)
E07	14854	16-3	1430	Sat	328 328 328 000	USB	(AB/MPJ/Dan/RL)
E07	10112	17-3	0700	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	11112	17-3	0720	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	12112	17-3	0740	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	10112	17-3	1400	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB/BW3-HOL)
E07	11112	17-3	1420	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB/BW3-HOL)
E07	12112	17-3	1440	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	10321	17-3	1800	Sun	318 318 318 000	USB	(AB/MPJ)
E07	9121	17-3	1820	Sun	318 318 318 000	USB	(AB/MPJ)
E07	10651	18-3	2000	Mon	616 616 616 000	USB	(AB-RUS/MPJ/RL)
E07	9151	18-3	2020	Mon	616 616 616 000	USB	(AB-RUS/MPJ/RL)

E07	14942	19-3	0700	Tue	310 310 310 1 9766 56 9766 56 68766 99855 79093 ... 38945 28122 29398 000 000	USB	(AB-RUS/HFD)
E07	16142	19-3	0720	Tue	310 310 310 1 9766 56 9766 56 68766 99855 79093 ... 38945 28122 29398 000 000	USB	(AB-RUS/HFD)
E07	18042	19-3	0740	Tue	310 310 310 1 9766 56 9766 56 68766 99855 79093 ... 38945 28122 29398 000 000	USB	(AB-RUS/HFD)
E07	19118	19-3	1100	Tue	149 149 149 000	USB	(AB-RUS/RL/MPJ)
E07	17418	19-3	1120	Tue	149 149 149 000	USB	(AB-RUS/RL/MPJ-RUS)
E07	10321	20-3	1800	Wed	318 318 318 000	USB	(AB/MPJ)
E07	9121	20-3	1820	Wed	318 318 318 000	USB	(AB/MPJ)
E07	10651	20-3	2000	Wed	616 616 616 000	USB	(AB/MPJ/RL)
E07	9151	20-3	2020	Wed	616 616 616 000	USB	(AB/MPJ)
E07	10112	21-3	1400	Thu	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	16284	21-3	1410	Thu	328 328 328 1 4000 57 4000 57 78900 93719 85939 ... 16737 17986 97841 000 000	USB	(AB-AUT)
E07	11112	21-3	1420	Thu	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	14854	21-3	1430	Thu	328 328 328 1 4000 57 4000 57 78900 93719 85939 ... 16737 17986 97841 000 000	USB	(AB-G)
E07	12112	21-3	1440	Thu	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	13384	21-3	1450	Thu	328 328 328 1 4000 57 4000 57 78900 93719 85939 ... 16737 17986 97841 000 000	USB	(AB)
E07	14942	22-3	0700	Fri	310 310 310 1 9766 56 9766 56 68766 99855 79093 ... 38945 28122 29398 000 000	USB	(AB)
E07	16142	22-3	0720	Fri	310 310 310 1 9766 56 9766 56 68766 99855 79093 ... 38945 28122 29398 000 000	USB	(AB-FIN)
E07	18042	22-3	0740	Fri	310 310 310 1 9766 56 9766 56 68766 99855 79093 ... 38945 28122 29398 000 000	USB	(AB-QAT)
E07	19118	22-3	1100	Fri	149 149 149 000	USB	(AB/RL)
E07	17418	22-3	1120	Fri	149 149 149 000	USB	(AB)
E07	10112	23-3	0700	Sat	111 111 111 000	USB	(AB)
E07	11112	23-3	0720	Sat	111 111 111 000	USB	(AB)
E07	16284	23-3	1410	Sat	328 328 328 1 4000 57 4000 57 78900 93719 85939 ... 16737 17986 97841 000 000	USB	(AB-AUT/MPJ)
E07	14854	23-3	1430	Sat	328 328 328 1 4000 57 4000 57 78900 93719 85939 ... 16737 17986 97841 000 000	USB	(AB/MPJ)
E07	13384	23-3	1450	Sat	328 328 328 1 4000 57 4000 57 78900 93719 85939 ... 16737 17986 97841 000 000	USB	(AB/BW3/MPJ)
E07	10112	24-3	0700	Sun	111 111 111 000	USB	(AB)
E07	11112	24-3	0720	Sun	111 111 111 000	USB	(AB)
E07	10112	24-3	1400	Sun	111 111 111 000	USB	(AB/MPJ)
E07	11112	24-3	1420	Sun	111 111 111 000	USB	(AB/MPJ)
E07	10321	24-3	1800	Sun	318 318 318 000	USB	(AB/MPJ)
E07	9121	24-3	1820	Sun	318 318 318 000	USB	(AB/MPJ)
E07	10651	25-3	2000	Mon	616 616 616 000	USB	(AB/MPJ)
E07	9151	25-3	2020	Mon	616 616 616 000	USB	(AB/MPJ)
E07	19118	26-3	1100	Tue	149 1 9987 143 60645 49583 17870 ... 91090 74771 31767 000 000	USB	(MPJ)
E07	17418	26-3	1120	Tue	149 1 9987 143 60645 49583 17870 ... 91090 74771 31767 000 000	USB	(MPJ)
E07	15918	26-3	1140	Tue	149 1 9987 143 60645 49583 17870 ... 91090 74771 31767 000 000	USB	(MPJ)
E07	10321	27-3	1800	Wed	318 318 318 1 5952 69 5952 69 90363 04914 70442 ... 22695 24110 45482 000 000	USB	(AB/MPJ)
E07	9121	27-3	1820	Wed	318 318 318 1 5952 69 5952 69 90363 04914 70442 ... 22695 24110 45482 000 000	USB	(AB/MPJ/BW3)
E07	7821	27-3	1840	Wed	318 318 318 1 5952 69 5952 69 90363 04914 70442 ... 22695 24110 45482 000 000	USB	(AB/MPJ)
E07	10651	27-3	2000	Wed	616 616 616 000	USB	(AB/MPJ/RL)

E07	9151	27-3	2020	Wed	616 616 616 000	USB	(AB/RL)
E07	10112	28-3	1400	Thu	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB/MPJ)
E07	16284	28-3	1410	Thu	328 328 328 000	USB	(AB-QAT/MPJ)
E07	11112	28-3	1420	Thu	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB/MPJ)
E07	14854	28-3	1430	Thu	328 328 328 000	USB	(AB-RUS/MPJ)
E07	12112	28-3	1440	Thu	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB/GHn/MPJ)
E07	14942	29-3	0700	Fri	310 310 310 1 9766 56 9766 56 68766 99855 79093 ... 38945 28122 29398 000 000	USB	(AB-QAT)
E07	16142	29-3	0720	Fri	310 310 310 1 9766 56 9766 56 68766 99855 79093 ... 38945 28122 29398 000 000	USB	(AB-QAT)
E07	18042	29-3	0740	Fri	310 310 310 1 9766 56 9766 56 68766 99855 79093 ... 38945 28122 29398 000 000	USB	(AB-QAT)
E07	19118	29-3	1100	Fri	149 149 149 1 9987 143 9987 143 60645 49583 17870 ... 91090 74771 31767 000 000	USB	(AB-RUS)
E07	17418	29-3	1120	Fri	149 149 149 1 9987 143 9987 143 60645 49583 17870 ... 91090 74771 31767 000 000	USB	(AB-RUS)
E07	15918	29-3	1140	Fri	149 149 149 1 9987 143 9987 143 60645 49583 17870 ... 91090 74771 31767 000 000	USB	(AB)
E07	10112	30-3	0700	Sat	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	11112	30-3	0720	Sat	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	12112	30-3	0740	Sat	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	16284	30-3	1410	Sat	328 328 328 000	USB	(AB-FIN/MPJ)
E07	14854	30-3	1430	Sat	328 328 328 000	USB	(AB-S/MPJ)
E07	10112	31-3	0700	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	11112	31-3	0720	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	12112	31-3	0740	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB)
E07	10112	31-3	1400	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB/MPJ)
E07	11112	31-3	1420	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB/MPJ)
E07	12112	31-3	1440	Sun	111 111 111 1 642 93 642 93 67101 74210 05323 89137 ... 29766 27145 27645 000 000	USB	(AB/MPJ)
E07	10321	31-3	1800	Sun	318 318 318 1 5952 69 5952 69 90363 04914 70442 ... 22695 24110 45482 000 000	USB	(AB/MPJ)
E07	9121	31-3	1820	Sun	318 318 318 1 5952 69 5952 69 90363 04914 70442 ... 22695 24110 45482 000 000	USB	(AB/MPJ)
E07	7821	31-3	1840	Sun	318 318 318 1 5952 69 5952 69 90363 04914 70442 ... 22695 24110 45482 000 000	USB	(AB/MPJ)
E07a	11473	1-3	1610	Fri	413 413 413 1 35013 540 71 540 71 43712 09388 94161 ... 22651 07301 75362 000 000	USB	(AB/MPJ/HFD)
E07a	10173	1-3	1630	Fri	413 413 413 1 35013 540 71 540 71 43712 09388 94161 ... 22651 07301 75362 000 000	USB	(AB/MPJ/BW3-D/HFD)
E07a	9373	1-3	1650	Fri	413 413 413 1 35013 540 71 540 71 43712 09388 94161 ... 22651 07301 75362 000 000	USB	(AB/MPJ/BW3-D/HFD)
E07a	11133	2-3	0900	Sat	114 114 114 1 35013 540 71 540 71 43712 09388 94161 ... 22651 07301 75362 000 000	USB	(AB)
E07a	12133	2-3	0920	Sat	114 114 114 1 35013 540 71 540 71 43712 09388 94161 ... 22651 07301 75362 000 000	USB	(AB)
E07a	13433	2-3	0940	Sat	114 114 114 1 35013 540 71 540 71 43712 09388 94161 ... 22651 07301 75362 000 000	USB	(AB)
E07a	5877	6-3	2100	Wed	825 825 825 000	USB	(AB/RL/HFD)
E07a	5277	6-3	2120	Wed	825 825 825 000	USB	(AB/RL/HFD)
E07a	6922	7-3	0530	Thu	913 913 913 000	USB	(AB/HFD)
E07a	8122	7-3	0550	Thu	913 913 913 000	USB	(AB/HFD)
E07a	11473	8-3	1610	Fri	413 413 413 000	USB	(MPJ)
E07a	10173	8-3	1630	Fri	413 413 413 000	USB	(MPJ/BW3-HOL)
E07a	11133	9-3	0900	Sat	114 114 114 000	USB	(AB/HFD)
E07a	12133	9-3	0920	Sat	114 114 114 000	USB	(AB/HFD)

E07a	5877	13-3	2100	Wed	825 825 825 000	USB	(AB/HFD)
E07a	5277	13-3	2120	Wed	825 825 825 000	USB	(AB/RL/HFD)
E07a	6922	14-3	0530	Thu	913 913 913 000	USB	(AB)
E07a	8122	14-3	0550	Thu	913 913 913 000	USB	(AB)
E07a	11473	15-3	1610	Fri	413 413 413 000	USB	(AB/GHn/MPJ)
E07a	10173	15-3	1630	Fri	413 413 413 000	USB	(AB/MPJ)
E07a	11133	16-3	0900	Sat	114 114 114 000	USB	(AB)
E07a	11133	16-3	0900	Sat	114 114 114 000	USB	(AB)
E07a	12133	16-3	0920	Sat	114 114 114 000	USB	(AB)
E07a	12133	16-3	0920	Sat	114 114 114 000	USB	(AB)
E07a	5877	20-3	2100	Wed	825 825 825 000	USB	(AB/RL)
E07a	5277	20-3	2120	Wed	825 825 825 000	USB	(AB/RL)
E07a	6922	21-3	0530	Thu	913 913 913 000	USB	(AB)
E07a	8122	21-3	0550	Thu	913 913 913 000	USB	(AB)
E07a	11473	22-3	1610	Fri	413 413 413 000	USB	(AB)
E07a	10173	22-3	1630	Fri	413 413 413 000	USB	(AB)
E07a	5877	27-3	2100	Wed	825 825 825 000	USB	(AB/RL)
E07a	5277	27-3	2120	Wed	825 825 825 000	USB	(AB/RL)
E07a	6922	28-3	0530	Thu	913 913 913 000	USB	(AB)
E07a	8122	28-3	0550	Thu	913 913 913 000	USB	(AB)
E07a	11473	29-3	1610	Fri	413 413 413 000	USB	(AB/MPJ)
E07a	10173	29-3	1630	Fri	413 413 413 000	USB	(AB/MPJ)
E07a	11133	30-3	0900	Sat	114 114 114 000	USB	(AB)
E07a	12133	30-3	0920	Sat	114 114 114 000	USB	(AB)
E11	13470	1-3	0600	Fri	188/00	USB	(AB)
E11	8180	1-3	0700	Fri	574/00	USB	(AB)
E11	9963	1-3	0715	Fri	639/00	USB	(AB)
E11	17410	1-3	0745	Fri	342/00	USB	(AB-AUT)
E11	7840	1-3	1000	Fri	300/00	USB	(AB)
E11	20286	1-3	1225	Fri	528/00	USB	(AB-POL/MPJ-CZE)
E11	13873	1-3	1650	Fri	929/00	USB	(AB-POL/MPJ)
E11	8530	1-3	1910	Fri	612/00	USB	(MPJ/HFD)
E11	8102	2-3	0710	Sat	491/00	USB	(AB)
E11	13046	2-3	1345	Sat	912/00	USB	(AB/MPJ)
E11	5844	2-3	1730	Sat	406/00	USB	(AB/MPJ/BW3-HOL)
E11	8102	3-3	0710	Sun	490/00	USB	(AB)
E11	5371	3-3	0805	Sun	310/00	USB	(AB)
E11	6397	3-3	1605	Sun	230/00	USB	(AB/MPJ)
E11	10448	3-3	1625	Sun	978/00	USB	(AB/MPJ)
E11	13873	3-3	1650	Sun	920/00	USB	(AB/MPJ)

E11	13470	3-3	1745	Sun	245/00	USB	(AB)
E11	8530	3-3	1910	Sun	612/00	USB	(AB/MPJ)
E11	13470	4-3	0600	Mon	181/00	USB	(AB)
E11	12153	4-3	0640	Mon	945/00	USB	(AB)
E11	10213	4-3	0745	Mon	262/00	USB	(AB)
E11	7317	4-3	1045	Mon	692/00	USB	(AB)
E11	20286	4-3	1225	Mon	520/00	USB	(HFD)
E11	13470	4-3	1745	Mon	240/00	USB	(AB-POL)
E11	7317	4-3	1900	Mon	641/00	USB	(AB/MPJ)
E11	10800	5-3	0645	Tue	515/00	USB	(AB)
E11	8180	5-3	0700	Tue	571/00	USB	(AB)
E11	10246	5-3	0845	Tue	154/00	USB	(AB)
E11	7840	5-3	1000	Tue	306/00	USB	(AB)
E11	6923	5-3	1205	Tue	464/00	USB	(AB/MPJ)
E11	13046	5-3	1345	Tue	914/00	USB	(AB-POL/MPJ/HFD)
E11	10800	5-3	1645	Tue	331/00	USB	(AB/MPJ)
E11	10620	5-3	1925	Tue	553/00	USB	(MPJ-AUT/HFD)
E11	17410	6-3	0745	Wed	342/00	USB	(AB-POL)
E11	7317	6-3	1045	Wed	696/00	USB	(AB/HFD)
E11	6923	6-3	1205	Wed	462/00	USB	(AB)
E11	10448	6-3	1625	Wed	977/00	USB	(AB/GHn/MPJ/HFD)
E11	10448	6-3	1625	Wed	977/00	USB	(HFD)
E11	5844	6-3	1730	Wed	404/00	USB	(AB/MPJ)
E11	10800	7-3	0645	Thu	518/00	USB	(AB)
E11	10246	7-3	0845	Thu	156/00	USB	(HFD)
E11	10426	7-3	0845	Thu	156/00	USB	(AB)
E11	10330	7-3	1530	Thu	260/00	USB	(AB/MPJ)
E11	10800	7-3	1645	Thu	332/00	USB	(AB/MPJ/BW3-HOL)
E11	7864	7-3	1730	Thu	412/00	USB	(AB/MPJ/HFD)
E11	7317	7-3	1900	Thu	643/00	USB	(AB)
E11	10620	7-3	1925	Thu	552/00	USB	(AB-AUT/MPJ-I)
E11	13470	8-3	0600	Fri	182/00	USB	(AB-POL)
E11	8180	8-3	0700	Fri	573/00	USB	(AB)
E11	9963	8-3	0715	Fri	639/00	USB	(AB)
E11	17410	8-3	0745	Fri	340/00	USB	(AB-POL)
E11	7840	8-3	1000	Fri	307/00	USB	(AB/HFD)
E11	13873	8-3	1650	Fri	927/00	USB	(HFD)
E11	13873	8-3	1650	Fri	927/00	USB	(MPJ/BW3-HOL)
E11	8530	8-3	1910	Fri	611/00	USB	(MPJ)
E11	8102	9-3	0710	Sat	496/00	USB	(HFD)

E11	8102	9-3	0710	Sat	496/00	USB	(AB)
E11	5371	9-3	0805	Sat	310/00	USB	(AB/HFD)
E11	5844	9-3	1730	Sat	408/00	USB	(AB/MPJ)
E11	4505	9-3	1930	Sat	366/00	USB	(AB/MPJ)
E11	8102	10-3	0710	Sun	490/00	USB	(AB)
E11	5371	10-3	0805	Sun	311/00	USB	(AB)
E11	10448	10-3	1625	Sun	974/00	USB	(MPJ)
E11	13873	10-3	1650	Sun	926/00	USB	(MPJ)
E11	13470	10-3	1745	Sun	245/00	USB	(HFD)
E11	8530	10-3	1910	Sun	613/00	USB	(AB/MPJ)
E11	4505	10-3	1930	Sun	366/00	USB	(AB/MPJ/HFD)
E11	5371	11-3	0450	Mon	412/00	USB	(AB)
E11	10213	11-3	0745	Mon	260/00	USB	(AB)
E11	5941	11-3	0820	Mon	431/00	USB	(AB)
E11	8180	11-3	0900	Mon	530/00	USB	(HFD)
E11	8180	11-3	0900	Mon	530/00	USB	(AB)
E11	20286	11-3	1225	Mon	520/00	USB	(AB-QAT/MPJ-AUT)
E11	7317	11-3	1900	Mon	640/00	USB	(AB/MPJ/HFD)
E11	10800	12-3	0645	Tue	517/00	USB	(AB)
E11	9963	12-3	0715	Tue	635/00	USB	(AB)
E11	7840	12-3	1000	Tue	308/00	USB	(AB)
E11	6397	12-3	1605	Tue	231/00	USB	(AB/GHn/BW3/MPJ)
E11	10800	12-3	1645	Tue	330/00	USB	(GHn/MPJ/HFD)
E11	10620	12-3	1925	Tue	550/00	USB	(AB-POL/MPJ-HOL)
E11	8180	13-3	0900	Wed	530/00	USB	(AB)
E11	6940	13-3	0930	Wed	279/00	USB	(AB)
E11	10448	13-3	1625	Wed	977/00	USB	(AB/MPJ)
E11	4181	13-3	1705	Wed	395/00	USB	(AB)
E11	5844	13-3	1730	Wed	403/00	USB	(AB/MPJ)
E11	10800	14-3	0645	Thu	519/00	USB	(AB)
E11	5941	14-3	0820	Thu	431/00	USB	(AB/HFD)
E11	6940	14-3	0930	Thu	279/00	USB	(AB)
E11	10330	14-3	1530	Thu	264/00	USB	(GHn/MPJ/HFD)
E11	10800	14-3	1645	Thu	335/00	USB	(AB/GHn/MPJ)
E11	7864	14-3	1730	Thu	410/00	USB	(AB/GHn/MPJ)
E11	7317	14-3	1900	Thu	648/00	USB	(AB/MPJ)
E11	10620	14-3	1925	Thu	550/00	USB	(AB/MPJ)
E11	12089	15-3	0600	Fri	180/00	USB	(AB-POL)
E11	9963	15-3	0715	Fri	630/00	USB	(AB)
E11	7840	15-3	1000	Fri	302/00	USB	(AB)

E11	20286	15-3	1225	Fri	525/00	USB	(MPJ-AUT)
E11	13873	15-3	1650	Fri	921/00	USB	(AB/MPJ)
E11	8530	15-3	1910	Fri	618/00	USB	(AB/MPJ)
E11	8102	16-3	0710	Sat	490/00	USB	(AB)
E11	4181	16-3	1705	Sat	392/00	USB	(AB/MPJ)
E11	5844	16-3	1730	Sat	405/00	USB	(AB)
E11	8102	17-3	0710	Sun	498/00	USB	(AB)
E11	6397	17-3	1605	Sun	235/00	USB	(AB)
E11	10448	17-3	1625	Sun	970/00	USB	(AB/MPJ)
E11	13873	17-3	1650	Sun	926/00	USB	(AB/MPJ)
E11	8530	17-3	1910	Sun	617/00	USB	(AB/MPJ)
E11	12089	18-3	0600	Mon	182/00	USB	(AB-POL)
E11	12153	18-3	0640	Mon	945/00	USB	(AB-AUT)
E11	10213	18-3	0745	Mon	262/00	USB	(AB)
E11	8180	18-3	0900	Mon	538/00	USB	(AB)
E11	7317	18-3	1045	Mon	696/00	USB	(AB)
E11	13470	18-3	1745	Mon	246/00	USB	(AB-POL/MPJ)
E11	8180	19-3	0700	Tue	576/00	USB	(AB/HFD)
E11	9963	19-3	0715	Tue	630/00	USB	(AB/HFD)
E11	19184	19-3	0820	Tue	136/00	USB	(AB-POL)
E11	7840	19-3	1000	Tue	300/00	USB	(AB)
E11	6923	19-3	1205	Tue	460/00	USB	(AB/MPJ)
E11	13046	19-3	1345	Tue	910/00	USB	(AB-POL/MPJ)
E11	6397	19-3	1605	Tue	233/00	USB	(AB/MPJ/BW3-FIN)
E11	10800	19-3	1645	Tue	337/00	USB	(AB)
E11	10620	19-3	1925	Tue	557/00	USB	(AB-POL/MPJ)
E11	17410	20-3	0745	Wed	340/00	USB	(AB-POL)
E11	19184	20-3	0820	Wed	133/00	USB	(AB-POL)
E11	8180	20-3	0900	Wed	533/00	USB	(AB)
E11	7317	20-3	1045	Wed	690/00	USB	(AB)
E11	6923	20-3	1205	Wed	465/00	USB	(AB/MPJ)
E11	10448	20-3	1625	Wed	974/00	USB	(AB/GHn/MPJ)
E11	4181	20-3	1705	Wed	394/00	USB	(AB/MPJ/HFD)
E11	5844	20-3	1730	Wed	402/00	USB	(AB/GHn/MPJ)
E11	10330	21-3	1530	Thu	268/00	USB	(AB/GHn/MPJ)
E11	10800	21-3	1645	Thu	331/00	USB	(GHn/MPJ)
E11	10620	21-3	1925	Thu	558/00	USB	(MPJ)
E11	12089	22-3	0600	Fri	189/00	USB	(AB-POL)
E11	17410	22-3	0745	Fri	342/00	USB	(AB-POL)
E11	7840	22-3	1000	Fri	306/00	USB	(AB)

E11	8102	23-3	0710	Sat	490/00	USB	(AB)
E11	5371	23-3	0805	Sat	312/00	USB	(AB)
E11	13873	23-3	1300	Sat	586/00	USB	(AB/MPJ)
E11	13046	23-3	1345	Sat	919/00	USB	(AB-POL/MPJ)
E11	4181	23-3	1705	Sat	391/00	USB	(AB/MPJ)
E11	5844	23-3	1730	Sat	400/00	USB	(AB/MPJ)
E11	4505	23-3	1930	Sat	363/00	USB	(AB/MPJ)
E11	8102	24-3	0710	Sun	498/00	USB	(AB)
E11	5371	24-3	0805	Sun	315/00	USB	(AB)
E11	6397	24-3	1605	Sun	231/00	USB	(GHn/MPJ)
E11	10448	24-3	1625	Sun	975/00	USB	(AB/GHn/MPJ)
E11	13470	24-3	1745	Sun	248/00	USB	(AB)
E11	4505	24-3	1930	Sun	368/00	USB	(AB)
E11	5371	25-3	0450	Mon	412/00	USB	(AB)
E11	12153	25-3	0640	Mon	941/00	USB	(AB)
E11	5941	25-3	0820	Mon	438/00	USB	(AB)
E11	8180	25-3	0900	Mon	534/00	USB	(AB)
E11	7317	25-3	1045	Mon	694/00	USB	(AB)
E11	20286	25-3	1225	Mon	521/00	USB	(MPJ-HNG)
E11	13470	25-3	1745	Mon	245/00	USB	(AB/MPJ)
E11	7317	25-3	1900	Mon	648/00	USB	(MPJ)
E11	6923	26-3	1205	Tue	469/00	USB	(AB/MPJ)
E11	13046	26-3	1345	Tue	912/00	USB	(AB/BW3-HOL/MPJ)
E11	6397	26-3	1605	Tue	236/00	USB	(GHn/MPJ)
E11	17410	27-3	0745	Wed	346/00	USB	(AB-POL)
E11	19184	27-3	0820	Wed	132/00	USB	(AB-POL)
E11	8180	27-3	0900	Wed	538/00	USB	(AB)
E11	6940	27-3	0930	Wed	279/00	USB	(AB)
E11	7317	27-3	1045	Wed	696/00	USB	(AB)
E11	6923	27-3	1205	Wed	463/00	USB	(AB/MPJ)
E11	4181	27-3	1705	Wed	396/00	USB	(AB)
E11	10800	28-3	0645	Thu	515/00	USB	(AB)
E11	5941	28-3	0820	Thu	439/00	USB	(AB)
E11	6940	28-3	0930	Thu	276/00	USB	(AB)
E11	13873	28-3	1300	Thu	585/00	USB	(AB/MPJ)
E11	7864	28-3	1730	Thu	418/00	USB	(AB/MPJ)
E11	7317	28-3	1900	Thu	646/00	USB	(AB/MPJ)
E11	8180	29-3	0700	Fri	571/00	USB	(AB)
E11	17410	29-3	0745	Fri	346/00	USB	(AB-POL)
E11	20286	29-3	1225	Fri	Null message	USB	(AB-POL/MPJ)

E11	13873	29-3	1650	Fri	924/00	USB	(AB/MPJ)
E11	8530	29-3	1910	Fri	616/00	USB	(AB/MPJ)
E11	5371	30-3	0805	Sat	315/00	USB	(AB)
E11	13873	30-3	1300	Sat	583/00	USB	(AB/MPJ)
E11	13046	30-3	1345	Sat	919/00	USB	(AB-POL/MPJ)
E11	4181	30-3	1705	Sat	399/00	USB	(AB)
E11	4505	30-3	1930	Sat	366/00	USB	(MPJ)
E11	5371	31-3	0805	Sun	312/00	USB	(AB)
E11	6397	31-3	1605	Sun	237/00	USB	(MPJ)
E11	13873	31-3	1650	Sun	927/00	USB	(AB)
E11	13470	31-3	1745	Sun	242/00	USB	(AB/MPJ)
E11	8530	31-3	1910	Sun	612/00	USB	(AB/MPJ)
E11	4505	31-3	1930	Sun	366/00	USB	(AB)
E11a	8180	4-3	0900	Mon	531/36 Attention 94653 11988 76021 ... 53379 33870 91715 Attention (message repeated) Out	USB	(AB)
E11a	9963	5-3	0715	Tue	631/35 Attention 90895 80876 45827 ... 55270 14768 01987 Attention (message repeated) Out	USB	(AB)
E11a	6397	5-3	1605	Tue	233/35 Attention 60696 37011 41005 ... 19155 24792 59796 Attention (message repeated) Out	USB	(AB/BW3-HOL/HFD)
E11a	8180	6-3	0900	Wed	530/39 Attention 14426 06378 00008 ... 26463 11037 88302 Attention (message repeated) Out	USB	(AB)
E11a	6807	6-3	0930	Wed	273/39 Attention 97280 45516 04239 ... 49990 87150 92000 Attention (message repeated) Out	USB	(AB)
E11a	6807	7-3	0930	Thu	273/39 Attention 97280 45516 04239 ... 49990 87150 92000 Attention (message repeated) Out	USB	(AB/HFD)
E11a	6397	10-3	1605	Sun	233/35 Attention 60696 37011 41005 ... 19155 24792 59796 Attention (message repeated) Out	USB	(AB/MPJ)
E11a	12153	11-3	0640	Mon	949/22 Attention 35289 84726 32242 ... 23901 23349 43884 Attention (message repeated) Out	USB	(HFD)
E11a	7317	11-3	1045	Mon	690/28 Attention 73486 22834 14546 ... 72463 93743 24538 Attention (message repeated) Out	USB	(AB)
E11a	20286	11-3	1225	Mon	522/34 Attention 38268 12750 31871 ... 30917 42372 14310 Attention (message repeated) Out	USB	(AB-AUT)
E11a	8180	12-3	0700	Tue	577/39 Attention 95641 91686 98756 ... 57612 09913 14631 Attention (message repeated) Out	USB	(AB)
E11a	6923	12-3	1205	Tue	463/36 Attention 90763 44484 35860 ... 71026 09025 60359 Attention (message repeated) Out	USB	(AB/MPJ/HFD)
E11a	13046	12-3	1345	Tue	911/37 Attention 20105 40388 56718 ... 16308 93699 01137 Attention (message repeated) Out	USB	(AB-POL/GHn/MPJ)
E11a	12153	13-3	0640	Wed	949/22 Attention 35289 84726 32242 ... 23901 23349 43884 Attention (message repeated)	USB	(AB)

E11a	7317	13-3	1045	Wed	Out 690/28 Attention 73486 22834 14546 ... 72463 93743 24538 Attention (message repeated)	USB	(AB)
E11a	6923	13-3	1205	Wed	Out 463/36 Attention 90763 44484 35860 ... 71026 09025 60359 Attention (message repeated)	USB	(MPJ)
E11a	8180	15-3	0700	Fri	Out 577/39 Attention 95641 91686 98756 ... 57612 09913 14631 Attention (message repeated)	USB	(AB)
E11a	17410	15-3	0745	Fri	Out 343/31 Attention 37364 10720 02135 ... 82089 30645 17668 Attention (message repeated)	USB	(AB-POL)
E11a	5371	16-3	0805	Sat	Out 310/33 Attention 86873 01994 66580 ... 52909 46383 78304 Attention (message repeated)	USB	(AB)
E11a	13046	16-3	1345	Sat	Out 911/37 Attention 20105 40388 56718 ... 16308 93699 01137 Attention (message repeated)	USB	(AB-POL/MPJ)
E11a	4505	16-3	1930	Sat	Out 365/36 Attention 08373 62376 35343 ... 44180 34334 73030 Attention (message repeated)	USB	(AB)
E11a	5371	17-3	0805	Sun	Out 310/33 Attention 86873 01994 66580 ... 52909 46383 78304 Attention (message repeated)	USB	(AB)
E11a	4505	17-3	1930	Sun	Out 365/36 Attention 08373 62376 35343 ... 44180 34334 73030 Attention (message repeated)	USB	(AB/MPJ)
E11a	5371	18-3	0450	Mon	Out 418/31 Attention 17839 73438 39159 ... 68863 61663 58389 Attention (message repeated)	USB	(AB-POL)
E11a	5941	18-3	0820	Mon	Out 439/40 Attention 23562 55953 28306 ... 80288 49620 03779 Attention (message repeated)	USB	(AB)
E11a	7317	18-3	1900	Mon	Out 641/33 Attention 33487 29533 34762 ... 78791 74947 71217 Attention (message repeated)	USB	(AB/MPJ)
E11a	10800	19-3	0645	Tue	Out 514/32 Attention 32079 10534 87207 ... 56017 08591 67245 Attention (message repeated)	USB	(AB/HFD)
E11a	6940	20-3	0930	Wed	Out 273/39 Attention 56943 94867 65521 ... 17318 70207 39868 Attention (message repeated)	USB	(AB)
E11a	5941	21-3	0820	Thu	Out 439/40 Attention 23562 55953 28306 ... 80288 49620 03779 Attention (message repeated)	USB	(AB/HFD)
E11a	6940	21-3	0930	Thu	Out 273/39 Attention 56943 94867 65521 ... 17318 70207 39868 Attention (message repeated)	USB	(AB/HFD)
E11a	7864	21-3	1730	Thu	Out 418/31 Attention 17839 73438 39159 ... 68863 61663 58389 Attention (message repeated)	USB	(AB/GHn)
E11a	7317	21-3	1900	Thu	Out 641/33 Attention 33487 29533 34762 ... 78791 74947 71217 Attention (message repeated)	USB	(AB/MPJ)
E11a	20286	22-3	1225	Fri	Out 522/34 Attention 38268 12750 31871 ... 30917 42372 14310 Attention (message repeated)	USB	(AB-POL)
E11a	13873	22-3	1650	Fri	Out 925/37 Attention 92423 02895 87092 ... 81622 08364 57963 Attention (message repeated)	USB	(AB/MPJ)

[illegible]

E17z	14260	21-3	0800	Thu	674 235 8 07931 98755 84638 45752 64655 58202 44206 29464 235 8 00000	USB	(AB/ES)
E17z	12930	21-3	0810	Thu	674 235 8 07931 98755 84638 45752 64655 58202 44206 29464 235 8 00000	USB	(AB)
E17z	12930	28-3	0810	Thu	674 235 8 07931 98755 84638 45752 64655 58202 44206 29464 235 8 00000	USB	(AB-G)
E25	6140	4-3	1358	Mon	111 Message 4512 9231 9021 9961 8243 3127 4803 1732 8935 6188 2284 9231 EOM EOT	USB	(Avare/Danix)
E25	6140	6-3	0930	Wed	Music: Oum Kulthum	USB	(Avare-GRC)
EGY	17416.7	19-3	1118	Tue	Egyptian diplo i.p. E1EC9 6A173 49F87 FD0B4 47CEA 7AFF 1D821 7E818 F8C10 C91 NNNNNRD HJKJ KDYFASH +?	SITOR-A 100/170	(AB/RL)
F01	6779	6-3	1940	Wed	Russian diplo/intel.)576 100000+++++++	FSK 200/500	(HFD)
F01	8094	6-3	1940	Wed	Russian diplo/intel.)576 100000+++++++	FSK 200/500	(HFD)
F01	10467	6-3	1940	Wed	Russian diplo/intel.)576 100000+++++++	FSK 200/500	(AB/RL/HFD)
F01	8094	6-3	1950	Wed	Russian diplo/intel.)576 100000+++++++	FSK 200/500	(AB/RL/HFD)
F01	6779	6-3	2000	Wed	Russian diplo/intel.)576 100000+++++++	FSK 200/500	(AB/HFD)
F03a	8680	1-3	0945	Fri	Polish intel.	FSK 100/200	(AB)
F03a	8680	1-3	0950	Fri	Polish intel.	FSK 100/200	(AB)
F03a	7377	4-3	1030	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7377	4-3	1035	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7798	4-3	1830	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7798	4-3	1835	Mon	Polish intel.	FSK 100/200	(AB)
F03a	8680	5-3	0945	Tue	Polish intel.	FSK 100/200	(AB)
F03a	8680	5-3	0950	Tue	Polish intel.	FSK 100/200	(AB)
F03a	7727	6-3	0915	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7727	6-3	0920	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7377	6-3	1030	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7377	6-3	1035	Wed	Polish intel.	FSK 100/200	(AB)
F03a	11486	7-3	0835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	11486	7-3	0840	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7727	7-3	0915	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7727	7-3	0920	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7840	7-3	1800	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7840	7-3	1805	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7798	7-3	1830	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7798	7-3	1835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7377	11-3	1030	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7377	11-3	1035	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7798	11-3	1830	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7798	11-3	1835	Mon	Polish intel.	FSK 100/200	(AB)
F03a	8680	12-3	0945	Tue	Polish intel.	FSK 100/200	(AB)
F03a	8680	12-3	0950	Tue	Polish intel.	FSK 100/200	(AB)
F03a	7840	12-3	1800	Tue	Polish intel.	FSK 100/200	(AB)
F03a	7840	12-3	1805	Tue	Polish intel.	FSK 100/200	(AB)

F03a	7377	13-3	1030	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7377	13-3	1035	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7840	14-3	1800	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7840	14-3	1805	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7798	14-3	1830	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7798	14-3	1835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7377	18-3	1030	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7377	18-3	1035	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7798	18-3	1830	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7798	18-3	1835	Mon	Polish intel.	FSK 100/200	(AB)
F03a	8680	19-3	0945	Tue	Polish intel.	FSK 100/200	(AB)
F03a	8680	19-3	0950	Tue	Polish intel.	FSK 100/200	(AB)
F03a	7840	19-3	1800	Tue	Polish intel.	FSK 100/200	(AB)
F03a	7840	19-3	1805	Tue	Polish intel.	FSK 100/200	(AB)
F03a	7377	20-3	1030	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7377	20-3	1035	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7840	21-3	1800	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7840	21-3	1805	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7798	21-3	1830	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7798	21-3	1835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	8680	22-3	0945	Fri	Polish intel.	FSK 100/200	(AB)
F03a	8680	22-3	0950	Fri	Polish intel.	FSK 100/200	(AB)
F03a	7377	25-3	1030	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7377	25-3	1035	Mon	Polish intel.	FSK 100/200	(AB)
F03a	7377	27-3	1030	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7377	27-3	1035	Wed	Polish intel.	FSK 100/200	(AB)
F03a	7840	28-3	1800	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7840	28-3	1805	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7798	28-3	1830	Thu	Polish intel.	FSK 100/200	(AB)
F03a	7798	28-3	1835	Thu	Polish intel.	FSK 100/200	(AB)
F03a	8680	29-3	0945	Fri	Polish intel.	FSK 100/200	(AB)
F03a	8680	29-3	0950	Fri	Polish intel.	FSK 100/200	(AB)
F06	17414	2-3	1100	Sat	Russian diplo/intel. Header: 11166 50046 34895 01071 02549	FSK 200/1000	(AB-RUS/MPJ)
F06	15605	2-3	1110	Sat	Russian diplo/intel. Header: 11166 50046 34895 01071 02549	FSK 200/1000	(AB-RUS/MPJ)
F06	13444	2-3	1120	Sat	Russian diplo/intel. Header: 11166 50046 34895 01071 02549	FSK 200/1000	(AB-RUS/MPJ)
F06	9064	2-3	1400	Sat	Russian diplo/intel. Header: 11100 00000 01895 01090 02239	FSK 200/1000	(Danix)
F06	18669	2-3	1400	Sat	Russian diplo/intel. Header: 11100 00000 01895 01090 02239	FSK 200/1000	(AB-RUS)
F06	22913	2-3	1500	Sat	Russian diplo/intel. 11166 40133 78963 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	20374	2-3	1510	Sat	Russian diplo/intel. 11166 40133 78963 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	18406	2-3	1520	Sat	Russian diplo/intel. 11166 40133 78963 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)

F06	17414	3-3	1100	Sun	Russian diplo/intel. Header: 11166 50046 34895 01071 02549	FSK 200/1000	(AB-RUS/MPJ)
F06	15605	3-3	1110	Sun	Russian diplo/intel. Header: 11166 50046 34895 01071 02549	FSK 200/1000	(AB/MPJ)
F06	13444	3-3	1120	Sun	Russian diplo/intel. Header: 11166 50046 34895 01071 02549	FSK 200/1000	(AB/MPJ)
F06	16245	3-3	1530	Sun	Russian diplo/intel. 11166 10053 95134 03001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	14356	3-3	1540	Sun	Russian diplo/intel. 11166 10053 95134 03001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	12138	3-3	1550	Sun	Russian diplo/intel. 11166 10053 95134 03001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	16357	5-3	1650	Tue	Russian diplo/intel. 11166 10053 14279 05069 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ-RUS)
F06	13986	5-3	1700	Tue	Russian diplo/intel. 11166 10053 14279 05069 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ-RUS)
F06	11523	5-3	1710	Tue	Russian diplo/intel. 11166 10053 14279 05069 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ-RUS)
F06	16054	7-3	1320	Thu	Russian diplo/intel. 464646 464646 464646	FSK 200/1000	(AB)
F06	16054	7-3	1330	Thu	Russian diplo/intel. 11166 80214 14256 07024 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13471	7-3	1340	Thu	Russian diplo/intel. 11166 80214 14256 07024 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11162	7-3	1350	Thu	Russian diplo/intel. 11166 80214 14256 07024 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9064	9-3	1400	Sat	Russian diplo/intel. Header: 11100 00000 61349 07091 02159	FSK 200/1000	(AB)
F06	18669	9-3	1400	Sat	Russian diplo/intel. Header: 11100 00000 61349 07091 02159 Spurious transmission	FSK 200/1000	(AB-RUS)
F06	6792	9-3	1410	Sat	Russian diplo/intel. Header: 11100 00000 61349 07091 02159	FSK 200/1000	(AB)
F06	4565	9-3	1420	Sat	Russian diplo/intel. Header: 11100 00000 61349 07091 02159	FSK 200/1000	(AB)
F06	22913	9-3	1500	Sat	Russian diplo/intel. 11166 40133 17935 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ-RUS)
F06	20374	9-3	1510	Sat	Russian diplo/intel. 11166 40133 17935 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ-RUS)
F06	18406	9-3	1520	Sat	Russian diplo/intel. 11166 40133 17935 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ-RUS)
F06	16245	10-3	1530	Sun	Russian diplo/intel. 11166 10053 79513 10012 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	14356	10-3	1540	Sun	Russian diplo/intel. 11166 10053 79513 10012 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ/RL)
F06	12138	10-3	1550	Sun	Russian diplo/intel. 11166 10053 79513 10012 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6796	11-3	0040	Mon	Russian diplo/intel. 11166 60070 91548 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5285	11-3	0050	Mon	Russian diplo/intel. 11166 60070 91548 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16357	12-3	1650	Tue	Russian diplo/intel. 11166 10053 97531 11269 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	13986	12-3	1700	Tue	Russian diplo/intel. 11166 10053 97531 11269 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	11523	12-3	1710	Tue	Russian diplo/intel. 11166 10053 97531 11269 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	18189	13-3	0600	Wed	Russian diplo/intel. Two messages. Headers: 11166 40122 15678 09021 03349 and 11166 40122 45697 09022 02349	FSK 200/1000	(AB-NZL)
F06	16046	13-3	0610	Wed	Russian diplo/intel. Two messages. Headers: 11166 40122 15678 09021 03349 and 11166 40122 45697 09022 02349	FSK 200/1000	(AB-NZL)
F06	14459	13-3	0620	Wed	Russian diplo/intel. Two messages. Headers: 11166 40122 15678 09021 03349 and 11166 40122 45697 09022 02349	FSK 200/1000	(AB-NZL)
F06	18969	13-3	0900	Wed	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(Priyom)
F06	16358	13-3	0910	Wed	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(Priyom)
F06	14713	13-3	0920	Wed	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(AB/Priyom)
F06	20138	13-3	1015	Wed	Russian diplo/intel. 11166 10031 17935 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	17428	13-3	1025	Wed	Russian diplo/intel. 11166 10031 17935 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	14983	13-3	1035	Wed	Russian diplo/intel. 11166 10031 17935 13001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)

F06	18189	14-3	0600	Thu	Russian diplo/intel. Two messages. Headers: 11166 40122 15678 09021 03349 and 11166 40122 45697 09022 02349	FSK 200/1000	(AB-NZL)
F06	16046	14-3	0610	Thu	Russian diplo/intel. Two messages. Headers: 11166 40122 15678 09021 03349 and 11166 40122 45697 09022 02349	FSK 200/1000	(AB-J)
F06	14459	14-3	0620	Thu	Russian diplo/intel. Two messages. Headers: 11166 40122 15678 09021 03349 and 11166 40122 45697 09022 02349	FSK 200/1000	(AB-J)
F06	18969	14-3	0900	Thu	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(AB)
F06	16358	14-3	0910	Thu	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(AB)
F06	14713	14-3	0920	Thu	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(AB)
F06	16054	14-3	1330	Thu	Russian diplo/intel. 11166 80214 16237 14049 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	13471	14-3	1340	Thu	Russian diplo/intel. 11166 80214 16237 14049 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	11162	14-3	1350	Thu	Russian diplo/intel. 11166 80214 16237 14049 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	17414	16-3	1050	Sat	Russian diplo/intel. Test: 4646464646464646 4646464646464646	FSK 200/1000	(AB-RUS)
F06	17414	16-3	1100	Sat	Russian diplo/intel. Header: 11166 50046 38541 14072 00669	FSK 200/1000	(AB-RUS/MPJ)
F06	15605	16-3	1110	Sat	Russian diplo/intel. Header: 11166 50046 38541 14072 00669	FSK 200/1000	(AB/MPJ)
F06	13444	16-3	1120	Sat	Russian diplo/intel. Header: 11166 50046 38541 14072 00669	FSK 200/1000	(AB/MPJ)
F06	9064	16-3	1350	Sat	Russian diplo/intel. Test: 4646464646464646 4646464646464646	FSK 200/1000	(AB)
F06	9064	16-3	1400	Sat	Russian diplo/intel. Header: 11100 00000 35791 15092 02239	FSK 200/1000	(AB)
F06	6792	16-3	1410	Sat	Russian diplo/intel. Header: 11100 00000 35791 15092 02239	FSK 200/1000	(AB)
F06	4565	16-3	1420	Sat	Russian diplo/intel. Header: 11100 00000 35791 15092 02239	FSK 200/1000	(AB-RUS)
F06	22913	16-3	1500	Sat	Russian diplo/intel. 11166 40133 13579 16038 00049 00000 00000 0000 00000	FSK 200/1000	(AB-RUS)
F06	20374	16-3	1510	Sat	Russian diplo/intel. 11166 40133 13579 16038 00049 00000 00000 0000 00000	FSK 200/1000	(AB-RUS)
F06	18406	16-3	1520	Sat	Russian diplo/intel. 11166 40133 13579 16038 00049 00000 00000 0000 00000	FSK 200/1000	(AB-RUS)
F06	11611	17-3	1030	Sun	Russian diplo/intel. Header: 11100 00000 35791 15092 02239	FSK 200/1000	(Danix)
F06	9425	17-3	1040	Sun	Russian diplo/intel. Header: 11100 00000 35791 15092 02239	FSK 200/1000	(Danix)
F06	6957	17-3	1050	Sun	Russian diplo/intel. Header: 11100 00000 35791 15092 02239	FSK 200/1000	(Danix)
F06	17414	17-3	1100	Sun	Russian diplo/intel. Header: 11166 50046 38541 14072 00669	FSK 200/1000	(AB-RUS/MPJ)
F06	15605	17-3	1110	Sun	Russian diplo/intel. Header: 11166 50046 38541 14072 00669	FSK 200/1000	(AB/MPJ)
F06	13444	17-3	1120	Sun	Russian diplo/intel. Header: 11166 50046 38541 14072 00669	FSK 200/1000	(AB/MPJ)
F06	16245	17-3	1530	Sun	Russian diplo/intel. 11166 10053 14279 17065 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	14356	17-3	1540	Sun	Russian diplo/intel. 11166 10053 14279 17065 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	12138	17-3	1550	Sun	Russian diplo/intel. 11166 10053 14279 17065 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9174	18-3	0500	Mon	Russian diplo/intel. 11166 70059 14279 18021 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7384	18-3	0510	Mon	Russian diplo/intel. 11166 70059 14279 18021 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5148	18-3	0520	Mon	Russian diplo/intel. 11166 70059 14279 18021 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7926	19-3	0030	Tue	Russian diplo/intel. 11166 60070 79513 19012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6796	19-3	0040	Tue	Russian diplo/intel. 11166 60070 79513 19012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5285	19-3	0050	Tue	Russian diplo/intel. 11166 60070 79513 19012 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16357	19-3	1650	Tue	Russian diplo/intel. 11166 10053 13579 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	13986	19-3	1700	Tue	Russian diplo/intel. 11166 10053 13579 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)

F06	11523	19-3	1710	Tue	Russian diplo/intel. 11166 10053 13579 19001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	18189	20-3	0600	Wed	Russian diplo/intel. 11166 40122 12895 20097 00049 00000 00000 00000 00000	FSK 200/1000	(AB-NZL)
F06	16046	20-3	0610	Wed	Russian diplo/intel. 11166 40122 12895 20097 00049 00000 00000 00000 00000	FSK 200/1000	(AB-NZL)
F06	14459	20-3	0620	Wed	Russian diplo/intel. 11166 40122 12895 20097 00049 00000 00000 00000 00000	FSK 200/1000	(AB-NZL)
F06	10328	20-3	0800	Wed	Russian diplo/intel. 11166 70048 13579 20016 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9240	20-3	0810	Wed	Russian diplo/intel. 11166 70048 13579 20016 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7656	20-3	0820	Wed	Russian diplo/intel. 11166 70048 13579 20016 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16054	21-3	1330	Thu	Russian diplo/intel. 11166 80214 59631 21089 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	13471	21-3	1340	Thu	Russian diplo/intel. 11166 80214 59631 21089 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	11162	21-3	1350	Thu	Russian diplo/intel. 11166 80214 59631 21089 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9064	23-3	1350	Sat	Russian diplo/intel. Test: 4646464646464646 4646464646464646	FSK 200/1000	(AB)
F06	9064	23-3	1400	Sat	Russian diplo/intel. Header: 11100 00000 32187 22093 02309	FSK 200/1000	(AB)
F06	6792	23-3	1410	Sat	Russian diplo/intel. Header: 11100 00000 32187 22093 02309	FSK 200/1000	(AB)
F06	4565	23-3	1420	Sat	Russian diplo/intel. Header: 11100 00000 32187 22093 02309	FSK 200/1000	(AB-RUS)
F06	16245	24-3	1530	Sun	Russian diplo/intel. 11166 10053 78945 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	14356	24-3	1540	Sun	Russian diplo/intel. 11166 10053 78945 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	12138	24-3	1550	Sun	Russian diplo/intel. 11166 10053 78945 24001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7926	26-3	0030	Tue	Russian diplo/intel. 11166 60070 14279 26075 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL)
F06	6796	26-3	0040	Tue	Russian diplo/intel. 11166 60070 14279 26075 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL)
F06	5285	26-3	0050	Tue	Russian diplo/intel. 11166 60070 14279 26075 00049 00000 00000 00000 00000	FSK 200/1000	(AB/RL)
F06	16357	26-3	1650	Tue	Russian diplo/intel. 11166 10053 13579 26001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	13986	26-3	1700	Tue	Russian diplo/intel. 11166 10053 13579 26001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	11523	26-3	1710	Tue	Russian diplo/intel. 11166 10053 13579 26001 00049 00000 00000 00000 00000	FSK 200/1000	(MPJ)
F06	18189	27-3	0600	Wed	Russian diplo/intel. Header: 11166 40122 65489 23023 04179	FSK 200/1000	(AB-NZL)
F06	16046	27-3	0610	Wed	Russian diplo/intel. Header: 11166 40122 65489 23023 04179	FSK 200/1000	(AB-J)
F06	14459	27-3	0620	Wed	Russian diplo/intel. Header: 11166 40122 65489 23023 04179	FSK 200/1000	(AB-J)
F06	10328	27-3	0800	Wed	Russian diplo/intel. 11166 70048 13579 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9240	27-3	0810	Wed	Russian diplo/intel. 11166 70048 13579 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7656	27-3	0820	Wed	Russian diplo/intel. 11166 70048 13579 27001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18969	27-3	0900	Wed	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(AB)
F06	16358	27-3	0910	Wed	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(AB)
F06	14713	27-3	0920	Wed	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(AB)
F06	17428	27-3	1025	Wed	Russian diplo/intel. 11166 10031 13579 27001 00049 00000 00000 00000 00000	FSK 200/1000	(RL)
F06	18189	28-3	0600	Thu	Russian diplo/intel. Header: 11166 40122 65489 23023 04179	FSK 200/1000	(AB-NZL)
F06	16046	28-3	0610	Thu	Russian diplo/intel. Header: 11166 40122 65489 23023 04179	FSK 200/1000	(AB-J)
F06	14459	28-3	0620	Thu	Russian diplo/intel. Header: 11166 40122 65489 23023 04179	FSK 200/1000	(AB-J)
F06	18969	28-3	0900	Thu	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(AB-QAT)
F06	16358	28-3	0910	Thu	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(AB-RUS)
F06	14713	28-3	0920	Thu	Russian diplo/intel. Header: 11166 00052 75139 12038 01329	FSK 200/1000	(AB)
F06	16054	28-3	1330	Thu	Russian diplo/intel. 11166 80214 16237 28071 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)

F06	13471	28-3	1340	Thu	Russian diplo/intel. 11166 80214 16237 28071 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	11162	28-3	1350	Thu	Russian diplo/intel. 11166 80214 16237 28071 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9064	30-3	1400	Sat	Russian diplo/intel. Header: 11100 00000 16348 29094 02189	FSK 200/1000	(AB)
F06	6792	30-3	1410	Sat	Russian diplo/intel. Header: 11100 00000 16348 29094 02189	FSK 200/1000	(AB)
F06	4565	30-3	1420	Sat	Russian diplo/intel. Header: 11100 00000 16348 29094 02189	FSK 200/1000	(AB-RUS)
F06	18726	30-3	1510	Sat	Russian diplo/intel. 11166 40133 79513 30012 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ-RUS)
F06	16139	30-3	1520	Sat	Russian diplo/intel. 11166 40133 79513 30012 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ-RUS/RL)
F06	16245	31-3	1530	Sun	Russian diplo/intel. 11166 10053 13579 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	14356	31-3	1540	Sun	Russian diplo/intel. 11166 10053 13579 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	12138	31-3	1550	Sun	Russian diplo/intel. 11166 10053 13579 31001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
G06	4792	1-3	1930	Fri	436 967 42 45678 68475 69385 ... 23648 23936 26389 967 42 00000	USB	(AB/MPJ)
G06	6810	4-3	0800	Mon	329 329 329 00000 Windows shut down sound	USB	(AB)
G06	4792	4-3	1700	Mon	145 145 145 00000	USB	(AB/HFD)
G06	4792	4-3	1706	Mon	145 145 145 00	USB	(AB)
G06	4877	4-3	1800	Mon	145 145 145 00000 Windows shut down sound	USB	(AB/HFD)
G06	5234	6-3	1200	Wed	145 145 145 00000	USB	(AB-POL)
G06	5234	6-3	1205	Wed	879 879 879 00000	USB	(AB-POL)
G06	5412	6-3	1300	Wed	145 145 145 00000 Windows shut down sound	USB	(AB)
G06	4598	7-3	1300	Thu	329 329 329 00000 Windows shut down sound	USB	(AB)
G06	4792	11-3	1700	Mon	145 145 145 00000	USB	(AB/MPJ)
G06	4792	11-3	1705	Mon	145 145 145 00000	USB	(AB)
G06	4877	11-3	1800	Mon	145 145 145 00000 Windows shut down sound	USB	(AB/MPJ)
G06	5234	13-3	1200	Wed	145 145 145 00000 Windows sounds	USB	(AB-POL/MPJ/HFD)
G06	5234	13-3	1207	Wed	111 111 111 0	USB	(AB-POL)
G06	5412	13-3	1300	Wed	145 145 145 00000 Windows shut down sound	USB	(AB/MPJ/HFD)
G06	5922	14-3	1930	Thu	579 ...	USB	(AB/MPJ)
G06	5442	15-3	1930	Fri	947 967 42 45678 68475 69385 ... 23648 23936 26389 967 42 0000	USB	(AB/MPJ/HFD)
G06	6810	18-3	0800	Mon	329 329 329 00000 Windows shut down sound	USB	(AB/HFD)
G06	4598	21-3	1300	Thu	329 329 329 00000 Windows shut down sound	USB	(AB)
G06	5940	28-3	1830	Thu	579 969 47 43067 32412 32464 ... 28203 20329 28935 969 47 00000	USB	(AB/MPJ)
G06	5442	29-3	1930	Fri	947 969 47 43067 32412 32464 ... 28203 20329 28935 969 47 00000	USB	(AB/MPJ)
HM01	11435	1-3	1600	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2/BW3)
HM01	11530	1-3	1703	Fri	i.p. 18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(BW3)
HM01	11635	1-3	2057	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	11435	2-3	1600	Sat	Radio Habana Cuba then into RDFT. 18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2/BW3)
HM01	16180	2-3	2057	Sat	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	17480	2-3	2157	Sat	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	11635	3-3	2200	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb) Should be on 10715 kHz	AM/RDFT	(RR2)

HM01	11435	4-3	1600	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2/BW3)
HM01	11635	4-3	2057	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	10715	4-3	2157	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	11435	5-3	1600	Tue	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2/BW3)
HM01	16180	5-3	2058	Tue	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	17480	5-3	2158	Tue	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	11435	6-3	1600	Wed	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11435	7-3	1608	Thu	Started late and already i.p. 18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11530	7-3	1704	Thu	i.p. 18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(BW3)
HM01	11635	7-3	1704	Thu	i.p. 18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(BW3)
HM01	16180	7-3	2058	Thu	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	11435	8-3	1600	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11530	8-3	1657	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(BW3)
HM01	11435	9-3	1600	Sat	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11530	10-3	1600	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb) should be on 11435 kHz	AM/RDFT	(RR2)
HM01	10715	10-3	2158	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	11435	11-3	1600	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11635	12-3	0800	Tue	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb) mixing with S06s	AM/RDFT	(AB)
HM01	11435	12-3	1600	Tue	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11435	12-3	1658	Tue	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(BW3)
HM01	11435	13-3	1608	Wed	i.p. 18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11635	14-3	1800	Thu	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	16180	14-3	2058	Thu	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	11435	15-3	1600	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11435	16-3	1600	Sat	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11635	16-3	1758	Sat	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	16180	16-3	2058	Sat	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb) Should be on 17480 kHz	AM/RDFT	(RL)
HM01	11435	17-3	1600	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	9330	18-3	0658	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	9240	18-3	0858	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	9155	18-3	0958	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	11435	18-3	1600	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11435	19-3	1603	Tue	Started late, already i.p. 18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2/BW3)
HM01	11530	21-3	1658	Thu	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	16180	21-3	2057	Thu	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	17480	21-3	2157	Thu	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)

HM01	11435	22-3	1600	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11435	23-3	1600	Sat	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	17480	23-3	2157	Sat	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	9330	24-3	0658	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	9065	24-3	0758	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	9240	24-3	0858	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	9155	24-3	0957	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	11435	24-3	1600	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	9240	25-3	0858	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	9155	25-3	1000	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	11435	25-3	1600	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11635	25-3	2057	Mon	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	11435	26-3	1600	Tue	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	9330	27-3	0700	Wed	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	11435	27-3	1557	Wed	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11635	27-3	1802	Wed	i.p. 18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(BW3)
HM01	16180	28-3	2101	Thu	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	16180	28-3	2101	Thu	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	17480	28-3	2157	Thu	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	9065	29-3	0758	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	9240	29-3	0858	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	9155	29-3	0958	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	11435	29-3	1559	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	11635	29-3	2057	Fri	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RL)
HM01	11435	30-3	1559	Sat	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
HM01	9330	31-3	0658	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	9065	31-3	0758	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(AB)
HM01	11435	31-3	1559	Sun	18253 65311 55104 83886 28556 23037 (repeating the groups of 22 Feb)	AM/RDFT	(RR2)
M01	6260	2-3	1500	Sat	463 331 331 30 30 = = 08529 69210 45979 ... 77338 61906 65052 = = 331 331 30 30 000	CW	(AB/MPJ)
M01	6510	3-3	0700	Sun	463 392 392 30 30 = = 34242 26651 05216 ... 90684 89650 41819 = = 392 392 30 30 000	CW	(AB)
M01	5475	5-3	1800	Tue	463 921 921 30 30 = = = 10496 58444 564523 54523 00979 ... 68853 12391 37863 = = = 921 921 30 30 000	CW	(MPJ/HFD)
M01	5020	5-3	2000	Tue	463 934 934 30 30 = = = 90092 13449 63136 ... 18134 33081 77614 = = = 934 934 30 30 000	CW	(MPJ/HFD)
M01	5475	7-3	1800	Thu	463 301 301 = 30 30 = = 53030 39220 76764 ... 87439 63308 95187 = = 301 301 = 30 30 000	CW	(AB/MPJ)
M01	5020	7-3	2000	Thu	463 103 103 = 30 30 = = 11876 10542 95192 ... 55685 05969 05586 = = 103 103 = 30 30 000	CW	(AB/MPJ)
M01	6260	9-3	1500	Sat	463 523 523 30 30 = = = 34774 04648 56504 ... 07190 02878 94680 = = = 523 523 30 30 000	CW	(AB/MPJ/HFD)
M01	6510	10-3	0700	Sun	463 515 515 30 30 = = 60249 90226 62727 ... 01597 75660 71981 = = 515 515 30 30 000	CW	(AB/HFD)
M01	5475	12-3	1800	Tue	463 310 310 30 30 = = 25428 06952 54312 ... 54386 51286 10424 = = 310 310 30 30 000	CW	(AB/MPJ)

M01	5020	12-3	2000	Tue	463 901 901 30 30 == 69200 77156 65891 ... 02138 07033 88567 == 901 901 30 30 000	CW	(AB/MPJ)
M01	5475	14-3	1800	Thu	463 301 301 30 30 == 12864 09974 50971 ... 33298 97054 24399 == 301 301 30 30 000	CW	(AB/MPJ)
M01	5020	14-3	2000	Thu	463 777 777 30 30 == 78741 39798 09658 ... 88077 66350 11888 == 777 777 30 30 000	CW	(AB/MPJ)
M01	6510	17-3	0700	Sun	463 905 905 30 30 == == 71595 79180 89105 ... 49329 35382 20935 == == 905 905 30 30 000	CW	(AB/ES)
M01	5475	19-3	1800	Tue	463 307 307 = 30 30 == 81475 21279 35541 ... 16095 83005 79212 == 307 307 = 30 30 000	CW	(AB/MPJ)
M01	5020	19-3	2000	Tue	463 109 109 = 30 30 == 80285 49196 68853 ... 45257 24078 94019 == 109 109 == 30 30 000. Errors	CW	(AB/MPJ)
M01	5475	21-3	1800	Thu	463 112 112 30 30 == 37354 62059 27721 ... 80725 54020 78284 == 112 112 30 30 000	CW	(AB/MPJ)
M01	5020	21-3	2000	Thu	463 121 121 30 30 == 20609 95525 66389 ... 60702 16040 34200 == 121 121 30 30 000	CW	(AB/MPJ)
M01	6260	23-3	1500	Sat	463 315 315 = 30 30 = 33026 05817 18323 ... 36403 45207 47741 = 315 315 = 30 30 000	CW	(AB/MPJ)
M01	6510	24-3	0700	Sun	463 127 127 30 30 = 79485 85164 73358 ... 77988 94280 69999 = 127 127 30 30 000	CW	(AB)
M01	5475	26-3	1800	Tue	463 5117 (!) 117 = 30 30 = 55176 21831 25960 ... 82420 12383 00411 = 117 117 = 30 30 000	CW	(MPJ)
M01	5020	26-3	2000	Tue	463 137 137 = 30 30 = 08070 72959 84625 ... 91134 58339 49650 = 137 137 = 30 30 000	CW	(AB/MPJ)
M01	5475	28-3	1800	Thu	463 887 887 30 30 = 36317 06157 97934 ... 39052 03094 59745 = 887 887 30 30 000	CW	(AB/MPJ)
M01	5020	28-3	2000	Thu	463 901 901 30 30 = 45994 09023 66434 ... 13612 07381 85178 = 901 901 30 30 000	CW	(AB/MPJ)
M01	6260	30-3	1500	Sat	463 317 317 30 30 = 77418 78830 88262 ... 20394 76090 48690 = 317 317 30 30 000	CW	(AB-RUS/MPJ)
M01	6510	31-3	0700	Sun	463 321 321 = 30 30 = 26627 90761 53406 ... 34736 22846 42161 = 321 321 = 30 30 000 Groups 8 and 9 were sent twice. Included various errors.	CW	(AB)
M01a	5859	10-3	0754	Sun	830 830 830 205 21 205 21 830 830 205 21 205 21 830 830 830 205 21 205 21 111 000	CW	(F5JBR)
M01a	9411	12-3	0530	Tue	751 751 751 96894 96894 (R4) 751 751 751 95792 95792 (R4)	CW	(ES-HOL)
M01a	10233	12-3	0620	Tue	354 354 354 78505 78505 (R4) 354 354 354 79326 79326 (R4)	CW	(ES-HOL)
M01a	9447	12-3	0628	Tue	143 143 143 88058 88058 (R4) 143 143 143 88058 88058 (R2) 111 999 00166 00040 60426 49300 ... 68648 85545 00040 00166 00000 = 166 45 111 000	CW	(ES-HOL)
M01a	10651	12-3	0710	Tue	297 297 297 38180 38180 (R4) 297 297 297 39318 39318 (R3)	CW	(ES-HOL)
M01a	9151	12-3	0717	Tue	728 728 728 43504 43504 (R2) 111 999 00167 00030 70426 49300 ... 68648 85545 00030 00167 00000 = 167 35 000	CW	(ES-HOL)
M01a	5473	12-3	1405	Tue	473 473 473 99427 99427 (R5)	CW	(Gwr)
M01a	7692	13-3	0539	Wed	958 958 958 47436 47436 (R5) 958 958 958 49337 49337 (R5)	CW	(ES-RUS)
M01a	9421	13-3	0620	Wed	135 135 135 60479 60479 (R5)	CW	(ES-RUS)
M01a	8111	13-3	0630	Wed	Test Tones	CW	(ES-RUS)
M01a	9175	13-3	0710	Wed	146 146 146 45623 45623 45623 (R3) 111 000	CW	(ES-HOL)
M01a	9447	15-3	0634	Fri	143 143 143 80037 80037 (R1m25s) 000	CW	(ES-HOL)
M01a	10651	15-3	0710	Fri	297 297 297 35916 35916 (R4) 297 297 297 36146 36146 (R4)	CW	(ES-HOL)
M01a	9151	15-3	0718	Fri	728 728 728 44783 44783 (R4) 728 728 728 45666 45666 (R4) 000	CW	(ES-HOL)
M01a	3882	18-3	1553	Mon	598 598 598 79653 79653 333 46 333 37 333 37 111 000	CW	(F5JBR)
M01a	4905	19-3	1216	Tue	94013 24648 04613 54798 74052 49840 13498 65412 36870 46521 = 347 10 000	CW	(ES-POL)
M01a	5045	21-3	1042	Thu	i.p. = 347 10 111 000	CW	(F5JBR)
M01a	4484	26-3	1836	Tue	333 69107 333 69107 111 999 325 43 = 49451 00963 25529 ... 93110 93765 78085 = 325 43	CW	(F5JBR)

					000			
M01a	4484	26-3	1836	Tue	333 69107 333 69107 111 999 325 43 = 49451 00963 25529 44039 00395 ...	CW	(F5JBR)	
M01a	5030.3	26-3	2015	Tue	536 536 536 52799 52799	CW	(AB)	
M01a	5030.3	26-3	2022	Tue	536 536 536 52899 52899	CW	(AB)	
M01a	5030.3	26-3	2034	Tue	536 536 536 52899 52899 52899 52899 52899 52899 52899 52899 52899	CW	(AB)	
M01a	4571	27-3	1745	Wed	333 90570 90570 946 946 946 333 90984 90984 946 946 333 90984 90984 ...	CW	(JPL-Sib)	
M01a	2806	27-3	1823	Wed	111 999 ...	CW	(F5JBR)	
M01a	2806	27-3	1823	Wed	29 29 29 510 63 510 63 329 329 329 510 63 510 63 ...	CW	(F5JBR)	
M01a	2713	27-3	1839	Wed	549 549 549 885 91 885 91 111 999 186 20 = 85948 73832 67818 32175 ...	CW	(F5JBR)	
M01b	4940	1-3	2002	Fri	153-731/32=35894 3625 not heard	CW	(HFD)	
M01b	3535	4-3	1910	Mon	420 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //4590 kHz	MCW	(MPJ-HOL)	
M01b	4590	4-3	1910	Mon	420 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //3535 kHz	MCW	(MPJ-HOL)	
M01b	3645	4-3	2015	Mon	771 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //4455 kHz	MCW	(MPJ)-HOL)	
M01b	4455	4-3	2015	Mon	771 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //3645 kHz	MCW	(MPJ)-HOL)	
M01b	4605	7-3	1932	Thu	201 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000	MCW	(MPJ-HOL)	
M01b	3625	8-3	2002	Fri	153 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //4940 kHz	MCW	(MPJ-HOL)	
M01b	4940	8-3	2002	Fri	153 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //3625 kHz	MCW	(MPJ-HOL)	
M01b	3535	11-3	1910	Mon	420 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //4590 kHz	MCW	(MPJ-HOL/ER)	
M01b	4590	11-3	1910	Mon	420 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //3535 kHz	MCW	(MPJ-HOL)	
M01b	3510	14-3	1932	Thu	201 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //4605 kHz	MCW	(MPJ-HOL)	
M01b	4605	14-3	1932	Thu	201 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //3510 kHz	MCW	(MPJ-HOL)	
M01b	3625	15-3	2002	Fri	153 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //4940 kHz	MCW	(MPJ-HOL)	
M01b	4940	15-3	2002	Fri	153 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //3625 kHz	MCW	(MPJ-HOL)	
M01b	3520	15-3	2110	Fri	582 731 32= 35894 AR	CW	(HFD)	
M01b	3535	18-3	1910	Mon	420 831 32 = 35894 //4590	CW	(HFD/MPJ)	
M01b	4590	18-3	1910	Mon	420 831 32 = 35894 //3535	CW	(HFD/MPJ)	
M01b	3645	18-3	2015	Mon	771 731 731 32 32 = = 35894 53572 19426 ... 06854 99159 88528 = = 731 731 32 32 000 //4455 kHz	MCW	(MPJ-HOL)	

M01b	4455	18-3	2015	Mon	771 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //3645 kHz	MCW	(MPJ-HOL)
M01b	3510	21-3	1932	Thu	201 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //4605 kHz	MCW	(MPJ-HOL)
M01b	4605	21-3	1932	Thu	201 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //3510 kHz	MCW	(MPJ-HOL)
M01b	3625	22-3	2002	Fri	153 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //4940 kHz	MCW	(MPJ-HOL)
M01b	4940	22-3	2002	Fri	153 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //3625 kHz	MCW	(MPJ-HOL)
M01b	3535	25-3	1910	Mon	420 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //4590 kHz	MCW	(MPJ)
M01b	4590	25-3	1910	Mon	420 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //3535 kHz	MCW	(MPJ)
M01b	3645	25-3	2015	Mon	771 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //4455 kHz	MCW	(MPJ-HOL)
M01b	4455	25-3	2015	Mon	771 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //3645 kHz	MCW	(MPJ-HOL)
M01b	3510	28-3	1932	Thu	201 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //4605 kHz	MCW	(MPJ-HOL)
M01b	4605	28-3	1932	Thu	201 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //3510 kHz	MCW	(MPJ-HOL)
M01b	3625	29-3	2002	Fri	163 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //4940 kHz	MCW	(MPJ-HOL)
M01b	4940	29-3	2002	Fri	163 731 731 32 32 == 35894 53572 19426 ... 06854 99159 88528 == 731 731 32 32 000 //3625 kHz	MCW	(MPJ-HOL)
M12	13952	1-3	1310	Fri	941 941 941 000	CW	(AB)
M12	13452	1-3	1330	Fri	941 941 941 000	CW	(AB/HFD)
M12	10172	1-3	2050	Fri	105 105 105 000	CW	(AB/RL/HFD)
M12	9072	1-3	2110	Fri	105 105 105 000	CW	(AB/RL/HFD)
M12	8158	2-3	0600	Sat	126 126 126 1 6655 113 6655 113 55967 28487 61629 ... 01096 55296 97401 000 000	CW	(AB)
M12	9258	2-3	0620	Sat	126 126 126 1 6655 113 6655 113 55967 28487 61629 ... 01096 55296 97401 000 000	CW	(AB)
M12	10658	2-3	0640	Sat	126 126 126 1 6655 113 6655 113 55967 28487 61629 ... 01096 55296 97401 000 000	CW	(AB)
M12	16276	4-3	1400	Mon	283 283 283 1 176 34 176 34 47320 24323 49923 ... 37901 80665 01574 000 000	CW	(AB/MPJ/HFD)
M12	14876	4-3	1420	Mon	283 283 283 1 176 34 176 34 47320 24323 49923 ... 37901 80665 01574 000 000	CW	(AB/MPJ/HFD)
M12	13376	4-3	1440	Mon	283 283 283 1 176 34 176 34 47320 24323 49923 ... 37901 80665 01574 000 000	CW	(AB/MPJ/HFD)
M12	8047	4-3	1800	Mon	463 463 463 1 7559 93 7559 93 69600 44136 83003 ... 01205 22687 07862 000 000	CW	(AB/MPJ/HFD)
M12	6802	4-3	1820	Mon	463 463 463 1 7559 93 7559 93 69600 44136 83003 ... 01205 22687 07862 000 000	CW	(AB/MPJ/HFD)
M12	5788	4-3	1840	Mon	463 463 463 1 7559 93 7559 93 69600 44136 83003 ... 01205 22687 07862 000 000	CW	(AB/MPJ/HFD)
M12	10343	4-3	2000	Mon	Active but uncopiable	CW	(MPJ-RUS)

M12	13952	6-3	1310	Wed	941 941 941 000	CW	(AB/MPJ)
M12	13452	6-3	1330	Wed	941 941 941 000	CW	(AB/MPJ)
M12	16276	6-3	1400	Wed	283 283 283 1 176 34 176 34 47320 24323 49923 ... 37901 80665 01574 000 000	CW	(AB/MPJ)
M12	14876	6-3	1420	Wed	283 283 283 1 176 34 176 34 47320 24323 49923 ... 37901 80665 01574 000 000	CW	(AB/MPJ)
M12	13376	6-3	1440	Wed	283 283 283 1 176 34 176 34 47320 24323 49923 ... 37901 80665 01574 000 000	CW	(AB/MPJ)
M12	11566	6-3	1738	Wed	i.p. 31902 34864 93411 000 000	CW	(MPJ)
M12	10172	6-3	2050	Wed	105 105 105 000	CW	(AB/RL)
M12	9072	6-3	2110	Wed	105 105 105 000	CW	(AB/RL)
M12	5763	6-3	2200	Wed	714 714 714 000	CW	(AB)
M12	5163	6-3	2220	Wed	714 714 714 000	CW	(AB)
M12	8164	7-3	2210	Thu	197 197 197 000	CW	(AB)
M12	6962	7-3	2230	Thu	197 197 197 000	CW	(AB)
M12	13952	8-3	1310	Fri	941 941 941 000	CW	(MPJ)
M12	13452	8-3	1330	Fri	941 941 941 000	CW	(MPJ)
M12	10172	8-3	2050	Fri	105 105 105 000	CW	(AB/RL)
M12	9072	8-3	2110	Fri	105 105 105 000	CW	(AB/RL)
M12	8126	8-3	2200	Fri	178 178 178 1 2414 14 2414 14 43360 57829 07139...43789 36995 89840 000 000	CW	(RL)
M12	7526	8-3	2220	Fri	178 178 178 1 2414 14 2414 14 43360 57829 07139...43789 36995 89840 000 000	CW	(RL)
M12	6826	8-3	2240	Fri	178 178 178 1 2414 14 2414 14 43360 57829 07139...43789 36995 89840 000 000	CW	(RL)
M12	8158	9-3	0600	Sat	126 126 126 000	CW	(AB)
M12	9258	9-3	0620	Sat	126 126 126 000	CW	(AB)
M12	8126	9-3	2200	Sat	178 178 178 1 2414 14 2414 14 43360 57829 07139 ... 43789 36995 89840 000 000	CW	(AB/RL)
M12	7526	9-3	2220	Sat	178 178 178 1 2414 14 2414 14 43360 57829 07139 ... 43789 36995 89840 000 000	CW	(AB/RL)
M12	6826	9-3	2240	Sat	178 178 178 1 2414 14 2414 14 43360 57829 07139 ... 43789 36995 89840 000 000	CW	(AB/RL)
M12	11552	10-3	0610	Sun	135 1 8323 108 35205 26076 à... 14401 08128 000 000	CW	(ES-HOL)
M12	16276	11-3	1400	Mon	283 283 283 000	CW	(AB)
M12	14876	11-3	1420	Mon	283 283 283 000	CW	(AB)
M12	8047	11-3	1800	Mon	463 463 463 1 1069 99 1069 99 69802 13684 01311 ... 08643 19595 35564 000 000	CW	(AB/MPJ)
M12	6802	11-3	1820	Mon	463 463 463 1 1069 99 1069 99 69802 13684 01311 ... 08643 19595 35564 000 000	CW	(AB/MPJ)
M12	5788	11-3	1840	Mon	463 463 463 1 1069 99 1069 99 69802 13684 01311 ... 08643 19595 35564 000 000	CW	(AB/MPJ)
M12	10343	11-3	2000	Mon	124 124 124 1 9274 101 9274 101 77109 77671 47095 ... 40219 79939 12977 000 000	CW	(AB-RUS/MPJ)
M12	9264	11-3	2020	Mon	124 124 124 1 9274 101 9274 101 77109 77671 47095 ... 40219 79939 12977 000 000	CW	(AB-RUS/MPJ)
M12	8116	11-3	2040	Mon	124 124 124 1 9274 101 9274 101 77109 77671 47095 ... 40219 79939 12977 000 000	CW	(AB)
M12	8164	11-3	2210	Mon	197 197 197 000	CW	(RL)
M12	6964	11-3	2230	Mon	197 197 197 000	CW	(RL)
M12	13952	13-3	1310	Wed	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ)
M12	13452	13-3	1330	Wed	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ)
M12	12152	13-3	1350	Wed	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ)
M12	16276	13-3	1400	Wed	283 283 283 000	CW	(AB/MPJ)
M12	14876	13-3	1420	Wed	283 283 283 000	CW	(AB/MPJ)

M12	11566	13-3	1736	Wed	i.p. 6 88786 03329 21203 44975 11474 27090 64661 37369 72990 68081 96800 58008 32230 36618 59689 05820 19190 73715 09677 63196 000 000	CW	(AB)
M12	10172	13-3	2050	Wed	105 105 105 000	CW	(AB/RL)
M12	9072	13-3	2110	Wed	105 105 105 000	CW	(AB/RL)
M12	5763	13-3	2200	Wed	714 714 714 000	CW	(AB)
M12	5163	13-3	2220	Wed	714 714 714 000	CW	(AB)
M12	12162	14-3	1700	Thu	546 1 8315 110 74993 03373....	CW	(BR)
M12	11566	14-3	1720	Thu	546 1 8315 110 74993 03373....	CW	(BR)
M12	10711	14-3	1730	Thu	546 1 8315 110 74993 03373....	CW	(BR)
M12	12162	14-3	1800	Thu	546 1 204 36 34769 64728....	CW	(BR)
M12	11566	14-3	1820	Thu	546 1 204 36 34769 64728....	CW	(BR)
M12	10711	14-3	1830	Thu	546 1 204 36 34769 64728....	CW	(BR)
M12	8164	14-3	2210	Thu	197 197 197 000	CW	(AB/RL)
M12	6962	14-3	2230	Thu	197 197 197 000	CW	(AB/RL)
M12	13952	15-3	1310	Fri	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ/HFD)
M12	13452	15-3	1330	Fri	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ/HFD)
M12	12152	15-3	1350	Fri	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ/HFD)
M12	10172	15-3	2050	Fri	105 105 105 000	CW	(AB)
M12	9072	15-3	2110	Fri	105 105 105 000	CW	(AB)
M12	8126	15-3	2200	Fri	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/Dan)
M12	7526	15-3	2220	Fri	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/RL)
M12	6826	15-3	2240	Fri	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB)
M12	8158	16-3	0600	Sat	126 126 126 000	CW	(AB/ES)
M12	9258	16-3	0620	Sat	126 126 126 000	CW	(AB/ES)
M12	8126	16-3	2200	Sat	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/RL)
M12	7526	16-3	2220	Sat	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/RL)
M12	6826	16-3	2240	Sat	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/RL)
M12	16276	18-3	1400	Mon	283 283 283 000	CW	(AB/MPJ)
M12	14876	18-3	1420	Mon	283 283 283 000	CW	(AB/MPJ)
M12	8047	18-3	1800	Mon	463 463 463 1 5846 92 5846 92 15834 45548 59355 ... 12322 60878 17904 000 000	CW	(AB/MPJ)
M12	6802	18-3	1820	Mon	463 463 463 1 5846 92 5846 92 15834 45548 59355 ... 12322 60878 17904 000 000	CW	(AB/MPJ)
M12	5788	18-3	1840	Mon	463 463 463 1 5846 92 5846 92 15834 45548 59355 ... 12322 60878 17904 000 000	CW	(AB/MPJ)
M12	10343	18-3	2000	Mon	124 124 124 1 1251 109 1251 109 63393 82232 42642 ... 12571 40758 07268 000 000	CW	(AB-RUS/MPJ/HFD)
M12	9264	18-3	2020	Mon	124 124 124 1 1251 109 1251 109 63393 82232 42642 ... 12571 40758 07268 000 000	CW	(AB-RUS/MPJ/HFD)
M12	8116	18-3	2040	Mon	124 124 124 1 1251 109 1251 109 63393 82232 42642 ... 12571 40758 07268 000 000	CW	(AB/HFD)
M12	9317	19-3	0530	Tue	135 1 8289 110 87657 62480 ... 30749 57324 000 000	CW	(ES-HOL)
M12	10484	19-3	0550	Tue	135 1 8289 110 87657 62480 ... 30749 57324 000 000	CW	(ES-HOL)
M12	11552	19-3	0610	Tue	135 1 8289 110 87657 62480 ... 30749 57324 000 000	CW	(ES-HOL)
M12	13952	20-3	1310	Wed	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ)
M12	13452	20-3	1330	Wed	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ)

M12	12152	20-3	1350	Wed	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ)
M12	16276	20-3	1400	Wed	283 283 283 000	CW	(AB/MPJ)
M12	14876	20-3	1420	Wed	283 283 283 000	CW	(AB/MPJ)
M12	12162	20-3	1710	Wed	546 546 546 1 7318 109 7318 109 54556 69288 28455 ... 74258 83309 24062 000 000	CW	(AB)
M12	11566	20-3	1730	Wed	546 546 546 1 7318 109 7318 109 54556 69288 28455 ... 74258 83309 24062 000 000	CW	(AB)
M12	10711	20-3	1750	Wed	546 546 546 1 7318 109 7318 109 54556 69288 28455 ... 74258 83309 24062 000 000	CW	(AB)
M12	10172	20-3	2050	Wed	105 105 105 000	CW	(AB/RL)
M12	9072	20-3	2110	Wed	105 105 105 000	CW	(AB/RL)
M12	5763	20-3	2200	Wed	714 714 714 1 883 67 883 67 62744 97303 20350 ... 25379 72444 07674 000 000	CW	(AB/HFD)
M12	5163	20-3	2220	Wed	714 714 714 1 883 67 883 67 62744 97303 20350 ... 25379 72444 07674 000 000	CW	(AB/HFD)
M12	4463	20-3	2240	Wed	714 714 714 1 883 67 883 67 62744 97303 20350 ... 25379 72444 07674 000 000	CW	(AB/HFD)
M12	8164	21-3	2210	Thu	197 197 197 000	CW	(AB/RL)
M12	6962	21-3	2230	Thu	197 197 197 000	CW	(AB/RL)
M12	13952	22-3	1310	Fri	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ)
M12	13452	22-3	1330	Fri	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ)
M12	12152	22-3	1350	Fri	941 941 941 1 5793 185 5793 185 90420 75022 73829 ... 96025 89824 40926 000 000	CW	(AB/MPJ)
M12	10172	22-3	2050	Fri	105 105 105 000	CW	(AB/RL)
M12	9072	22-3	2110	Fri	105 105 105 000	CW	(AB/RL)
M12	8126	22-3	2200	Fri	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/RL)
M12	7526	22-3	2220	Fri	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/RL)
M12	6826	22-3	2240	Fri	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/RL)
M12	8158	23-3	0600	Sat	126 126 126 1 883 67 883 67 62744 97303 20350 ... 25379 72444 07674 000 000	CW	(AB)
M12	9258	23-3	0620	Sat	126 126 126 1 883 67 883 67 62744 97303 20350 ... 25379 72444 07674 000 000	CW	(AB)
M12	10659	23-3	0640	Sat	126 126 126 1 883 67 883 67 62744 97303 20350 ... 25379 72444 07674 000 000	CW	(AB)
M12	8126	23-3	2200	Sat	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/RL)
M12	7526	23-3	2220	Sat	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/RL)
M12	6826	23-3	2240	Sat	178 178 178 1 254 18 254 18 52971 14240 01779 ... 93768 97378 32660 000 000	CW	(AB/RL)
M12	16276	25-3	1400	Mon	283 283 283 1 6465 80 6465 80 21254 47549 24822 ... 05895 90398 71819 000 000	CW	(AB/MPJ)
M12	14876	25-3	1420	Mon	283 283 283 1 6465 80 6465 80 21254 47549 24822 ... 05895 90398 71819 000 000	CW	(AB/MPJ)
M12	13376	25-3	1440	Mon	283 283 283 1 6465 80 6465 80 21254 47549 24822 ... 05895 90398 71819 000 000	CW	(AB/MPJ)
M12	8047	25-3	1800	Mon	463 1 3646 100 29228 36590 28255 ... 22966 34091 11167 000 000	CW	(MPJ)
M12	6802	25-3	1820	Mon	463 1 3646 100 29228 36590 28255 ... 22966 34091 11167 000 000	CW	(MPJ)
M12	5788	25-3	1840	Mon	463 1 3646 100 29228 36590 28255 ... 22966 34091 11167 000 000	CW	(MPJ)
M12	10343	25-3	2000	Mon	124 124 124 1 7502 109 7502 109 72396 95285 35955 ... 43060 63261 74803 000 000	CW	(AB/MPJ)
M12	9264	25-3	2020	Mon	124 124 124 1 7502 109 7502 109 72396 95285 35955 ... 43060 63261 74803 000 000	CW	(AB/MPJ)
M12	8116	25-3	2040	Mon	124 124 124 1 7502 109 7502 109 72396 95285 35955 ... 43060 63261 74803 000 000	CW	(AB/RL)
M12	8164	25-3	2210	Mon	197 197 197 000	CW	(AB/RL)
M12	6964	25-3	2230	Mon	197 197 197 000	CW	(AB/RL)
M12	13952	27-3	1310	Wed	941 941 941 1 244 200 244 200 84863 56230 81577 ... 30449 20208 19267 000 000	CW	(AB/MPJ)
M12	13452	27-3	1330	Wed	941 941 941 1 244 200 244 200 84863 56230 81577 ... 30449 20208 19267 000 000	CW	(AB/MPJ)

M12	12152	27-3	1350	Wed	941 941 941 1 244 200 244 200 84863 56230 81577 ... 30449 20208 19267 000 000	CW	(AB/MPJ)
M12	16276	27-3	1400	Wed	283 283 283 1 6465 80 6465 80 21254 47549 24822 ... 05895 90398 71819 000 000	CW	(AB/MPJ/RL)
M12	14876	27-3	1420	Wed	283 283 283 1 6465 80 6465 80 21254 47549 24822 ... 05895 90398 71819 000 000	CW	(AB/MPJ)
M12	13376	27-3	1440	Wed	283 283 283 1 6465 80 6465 80 21254 47549 24822 ... 05895 90398 71819 000 000	CW	(AB/MPJ)
M12	12162	27-3	1710	Wed	546 546 546 1 5282 105 5282 105 10174 57643 57538 ... 34207 43282 75668 000 000	CW	(AB)
M12	11566	27-3	1730	Wed	546 546 546 1 5282 105 5282 105 10174 57643 57538 ... 34207 43282 75668 000 000	CW	(AB)
M12	10711	27-3	1750	Wed	546 546 546 1 5282 105 5282 105 10174 57643 57538 ... 34207 43282 75668 000 000	CW	(AB)
M12	10172	27-3	2050	Wed	105 105 105 000	CW	(AB/RL)
M12	9072	27-3	2110	Wed	105 105 105 000	CW	(AB/RL)
M12	5763	27-3	2200	Wed	714 714 714 000	CW	(AB/RL)
M12	5163	27-3	2220	Wed	714 714 714 000	CW	(AB/RL)
M12	8164	28-3	2210	Thu	197 197 197 000	CW	(AB/RL)
M12	6962	28-3	2230	Thu	197 197 197 000	CW	(AB/RL)
M12	13952	29-3	1310	Fri	941 941 941 1 244 200 244 200 84863 56230 81577 ... 30449 20208 19267 000 000	CW	(AB/MPJ)
M12	13452	29-3	1330	Fri	941 941 941 1 244 200 244 200 84863 56230 81577 ... 30449 20208 19267 000 000	CW	(AB/MPJ)
M12	12152	29-3	1350	Fri	941 941 941 1 244 200 244 200 84863 56230 81577 ... 30449 20208 19267 000 000	CW	(AB/MPJ)
M12	10172	29-3	2050	Fri	105 105 105 000	CW	(AB)
M12	9072	29-3	2110	Fri	105 105 105 000	CW	(AB/RL)
M12	8126	29-3	2200	Fri	178 178 178 1 8610 29 8610 29 25725 59626 49569 ... 82892 63935 98588 000 000	CW	(AB/RL)
M12	7526	29-3	2220	Fri	178 178 178 1 8610 29 8610 29 25725 59626 49569 ... 82892 63935 98588 000 000	CW	(AB/RL)
M12	6826	29-3	2240	Fri	178 178 178 1 8610 29 8610 29 25725 59626 49569 ... 82892 63935 98588 000 000	CW	(AB/RL)
M12	8158	30-3	0600	Sat	126 126 126 000	CW	(AB)
M12	9258	30-3	0620	Sat	126 126 126 000	CW	(AB)
M12	8126	30-3	2200	Sat	178 178 178 1 8610 29 8610 29 25725 59626 49569 ... 82892 63935 98588 000 000	CW	(AB/RL)
M12	7526	30-3	2220	Sat	178 178 178 1 8610 29 8610 29 25725 59626 49569 ... 82892 63935 98588 000 000	CW	(AB/RL)
M12	6826	30-3	2240	Sat	178 178 178 1 8610 29 8610 29 25725 59626 49569 ... 82892 63935 98588 000 000	CW	(AB/RL)
M14	5275	1-3	1900	Fri	735 735 735 00000	CW	(HFD)
M14	4875	1-3	2000	Fri	735 735 735 00000	MCW	(AB/HFD)
M14	4730	2-3	0800	Sat	523 0 then 270/42 =67321	CW	(HFD)
M14	4730	2-3	0800	Sat	Null msg 523 523 523 00000 followed by a msg at 0804z: 270 270 42 42 = = 67321 45236 10946 ... 33769 56241 33781 = = 270 270 42 42 00000	MCW	(AB)
M14	4730	2-3	0813	Sat	Test: 803 22051 4	MCW	(AB)
M14	4730	2-3	0815	Sat	Test: 889 69497 48876 2	MCW	(AB)
M14	4650	2-3	0900	Sat	523 270 270 42 42 = = 67321 45236 10946 ... 33769 56241 33781 = = 270 270 42 42 00000	MCW	(AB/HFD)
M14	18041	5-3	0500	Tue	952 176 176 50 50 = = 12898 85720 47533 ... 33420 30705 90733 = = 176 176 50 50 00000	CW	(AB-NZL)
M14	5775	5-3	1600	Tue	239 239 239 00000	CW	(HFD)
M14	6793	6-3	1600	Wed	239 239 239 00000	CW	(HFD)
M14	4730	9-3	0754	Sat	Test: 48108 48023 42100 75027 94817 31436 79423 73688 3587	MCW	(AB)
M14	4730	9-3	0800	Sat	523 146 146 42 42 = = 67134 76351 43728 ... 24378 27130 90456 = = 146 146 42 42 00000	MCW	(AB)
M14	4730	9-3	0818	Sat	Test: 79687 75674 10534 29374 70932 82147 etc 000	MCW	(AB)

M14	4650	9-3	0900	Sat	523 146 146 42 42 == 67134 76351 43728 ... 24378 27130 90456 == 146 146 42 42 00000	MCW	(AB)
M14	17458	10-3	0930	Sun	617 + 5FG message	CW	(AB-S)
M14	18041	11-3	0500	Mon	952 704 704 55 55 == 88594 70876 93620 ... 08143 52774 23019 == 704 704 55 55 00000	CW	(AB-NZL)
M14	15994	11-3	0930	Mon	Two messages 617 432 432 65 65 == 88392 52148 80762 ... 39042 09412 27097 == 432 432 65 65 and 617 894 894 50 50 == 05868 15649 42746 ... 21380 88568 72794 == 894 894 50 50 0000	CW	(AB-RUS)
M14	18041	12-3	0500	Tue	952 386 386 59 59 == 42777 79235 07383 ... 98986 47052 59393 == 386 386 59 59 00000	CW	(AB-NZL)
M14	5947	12-3	1820	Tue	346 899 899 50 50 == 28901 36471 58902 78156 38903 47819 ...	CW	(AB/MPJ)
M14	5473	13-3	1930	Wed	instead of 5463 kHz, 1920 UTC: 537 899 899 50 50 == 28901 36471 58902 ... 45185 28901 00268 No outro	CW	(AB)
M14	5275	15-3	1900	Fri	735 735 735 00000	MCW	(AB/MPJ)
M14	4875	15-3	1947	Fri	Test ...23593 02921 10441	MCW	(MPJ)
M14	4875	15-3	2000	Fri	735 735 735 00000	MCW	(AB/MPJ)
M14	4730	16-3	0800	Sat	523 130 130 45 45 == 35567 27654 19034 ... 39657 40934 48713 == 130 130 45 45 00000	MCW	(AB)
M14	4650	16-3	0900	Sat	523 130 130 45 45 == 35567 27654 19034 ... 39657 40934 48713 == 130 130 45 45 00000	MCW	(AB)
M14	18041	18-3	0500	Mon	952 830 830 52 52 == 38441 37654 86063 ... 06215 23373 04982 == 830 830 52 52 no nulls at the end	CW	(AB-NZL)
M14	18041	19-3	0500	Tue	952 716 716 51 51 == 16315 52878 25300 ... 51429 17234 71087 == 716 716 51 51 00000	CW	(AB-NZL)
M14	5775	19-3	1600	Tue	239 239 239 00000	MCW	(AB/MPJ)
M14	18041	20-3	0500	Wed	952 840 840 50 50 == 14064 08737 31279 ... 76196 09318 01829 == 840 840 50 50 00000	CW	(AB-NZL)
M14	18041	22-3	0500	Fri	952 478 478 50 50 == 28785 81776 97430 ... 01461 75480 12272 == 478 478 50 50 00000	CW	(AB-NZL)
M14	4730	23-3	0800	Sat	523 130 130 45 45 == 34567 47654 19034 ... 39657 40934 48713 == 130 13055 45 00000	MCW	(AB-POL)
M14	4650	23-3	0900	Sat	523 130 130 45 45 == 34567 47654 19034 ... 39657 40934 48713 == 130 13055 45 00000	MCW	(AB-POL)
M14	18041	25-3	0500	Mon	952 301 301 50 50 == 73720 22636 90885 ... 08696 29121 62590 == 301 301 50 50 00000	CW	(AB-J)
M14	17458	25-3	0930	Mon	617 617 617 00000	CW	(AB)
M14	18041	26-3	0500	Tue	952 768 768 50 50 == 14330 17737 22211 ... 73342 41372 48664 == 768 768 50 50 0000	CW	(AB-NZL)
M14	5463	27-3	1920	Wed	537 899 899 50 50 == 28901 36471 58902 ... 45185 28901 00268 = 899 899 50 50 00000	MCW	(AB/MPJ)
M14	4730	30-3	0800	Sat	523 270 270 42 42 == 67321 45236 10946 ... 33769 56241 33781 == 270 270 42 42 00000	MCW	(AB-POL)
M14	4650	30-3	0900	Sat	523 270 270 42 42 == 67321 45236 10946 ... 33769 56241 33781 == 270 270 42 42 00000	MCW	(AB-POL)
M21	4171	10-3	0734	Sun	Time marker, every minute =991034??8????? =991035??8????? =991036??8?????	CW	(F5JBR)
M21	8747	10-3	1408	Sun	Time marker, every minute =99?1709?9????? =99?1710?9?????	CW	(F5JBR)
M21	3300.5	16-3	1452	Sat	=99?1752?9????? =99?1754?9????? =99?1756?9????? marker every two minutes	CW	(AB-J)
M21	5202	17-3	1210	Sun	=991510??8????? =991511??8????? =991512??8?????	CW	(JPL-Sib)
M21	3300.5	18-3	1420	Mon	=99?1720?9????? =99?1722?9????? =99?1724?9????? marker every two minutes	CW	(AB-Sib)
M21	4391	18-3	1759	Mon	Time marker, every minute =992056??0????? =992057??0????? =992058??0?????	CW	(F5JBR)
M21	6828	19-3	0730	Tue	Time marker, every minute =991030??8????? =991031??8????? =991032??8?????	CW	(F5JBR)
M21	4191.5	20-3	1850	Wed	=992150??8????? =992151??8????? =992152??8????? marker, every minute	CW	(F5JBR)
M21	6425.5	22-3	1438	Fri	=991738??0????? =991739??0????? =991740??0????? marker, every minute	CW	(F5JBR)
M21	6425.5	24-3	1445	Sun	=18212466799254 =991755??0????? =18212466792554	CW	(F5JBR)
M21	5202	24-3	1712	Sun	=992012??8????? =992013??8????? =992014??8????? marker, every minute	CW	(F5JBR)

M21	4155	25-3	1315	Mon	=91615??8????? =991616??8????? =991617??8????? marker, every minute	CW	(F5JBR)
M21	6424.5	25-3	1335	Mon	=991637??0????? =991638??0????? =991639??0????? marker, every minute	CW	(F5JBR)
M22	8780	3-3	2014	Sun	4XZ: Israeli Navy	CW	(RL)
M23	14100	19-3	1658	Tue	051 (R12) long zero's	CW	(CK/AB)
M23	14100	20-3	1658	Wed	051 (R12) long zero's	CW	(AB)
M23	14100	23-3	1658	Sat	051 (R12) long zero's	CW	(CK)
M23	14100	24-3	1658	Sun	051 (R12) long zero's	CW	(CK)
M23	14100	26-3	1658	Tue	051 (R12)	CW	(CK/RL)
M23	14100	27-3	1658	Wed	051 (R12) long zero's	CW	(AB/MPJ/RL)
M23	14100	28-3	1658	Thu	051 (R12) long zero's	CW	(AB/MPJ)
M23	14100	29-3	1658	Fri	051 (R12) long zero's	CW	(AB/MPJ/RL)
M23	14100	30-3	1658	Sat	051 (R12) long zero's	CW	(AB/MPJ/RL)
M23	14100	31-3	1658	Sun	051 (R12) long zero's	CW	(AB/CK/MPJ)
M23	14100	21-3	1658	Wed	051 (R12) long zero's	CW	(AB)
M23	14100	22-3	1658	Wed	051 (R12) long zero's	CW	(AB)
M23	14100	25-3	1658	Wed	051 (R12) long zero's	CW	(AB)
M32	10653.5	1-3	0936	Fri	XXX XXX MSK7 MSK7 03161 STAZIYa 3144 9103 K	CW	(Gwr)
M32	10653.5	1-3	0936	Fri	XXX XXX MSK7 MSK7 91416 GAMOSTOB 7019 6938 K	CW	(Gwr)
M32	10653.5	1-3	0953	Fri	XXX XXX MSK7 MSK7 39416 NATROPENS 2187 1321 MOTOPIT 3154 9103 K	CW	(Gwr)
M32	10653.5	1-3	0958	Fri	XXX XXX MSK7 MSK7 96349 NORA 3795 5751 MOREHODEC 4712 2074 NEZARONNYJ 8471 5386 K	CW	(Gwr)
M32	10653.5	1-3	1004	Fri	XXX XXX MSK7 MSK7 64748 WYEMONEGA 7505 9057 K	CW	(Gwr)
M32	12606	6-3	0737	Wed	XXX XXX WLHN WLHN 21268 45883 94469 GROTOBRAT 5924 6623 //12981, 13852 kHz	CW	(JU)
M32	12606	6-3	0740	Wed	XXX XXX WLHN WLHN 31861 RUJVE 2291 0701 RABOVMYH 9845 3915 //12981, 13852 kHz	CW	(JU)
M32	12606	6-3	0743	Wed	XXX XXX WLHN WLHN 20869 TRENNAV 3268 0287 STEROChTOK 1843 9563 //12981, 13852 kHz	CW	(JU)
M32	12606	6-3	0745	Wed	XXX XXX WLHN WLHN 46252 FAGOBUEK 3316 2745 SLYHOHOLL 6076 0362 //12981, 13852 kHz	CW	(JU)
M32	12606	6-3	0748	Wed	XXX XXX WLHN WLHN 20339 17722 PAKTOSAD 6261 2196 SUKOKOFE 6991 5697 //12981, 13852 kHz	CW	(JU)
M32	12606	6-3	0757	Wed	XXX XXX WEGI WEGI 94262 SNOPOMAJAe 3026 2613 //12981, 13852 kHz	CW	(JU)
M32	12606	6-3	0759	Wed	XXX XXX WEGI WEGI 14965 POWETRXE 6157 1074 URNA 5242 5603 //12981, 13852 kHz	CW	(JU)
M32	12606	6-3	0806	Wed	XXX XXX N1DX N1DX F2ET F2ET 15063 09041 RAZUMNICA 7247 5360 UGODLIWOSTX 6922 1224 //12981, 13852 kHz	CW	(JU)
M32	12606	6-3	0810	Wed	XXX XXX WLHN WLHN 30564 59085 68320 ODESSA 6926 3464 //12981, 13852 kHz	CW	(JU)
M32	12832	6-3	0812	Wed	RDL: XXX XXX WEGI WEGI 89183 94262 SNOPOMAJAe 3026 2613 //14411 kHz	CW	(JU)
M32	12832	6-3	0817	Wed	RDL: XXX XXX M7A2 M7A2 07227 45315 PRChELEC 7470 1892 //14411 kHz	CW	(JU)
M32	12832	6-3	0828	Wed	RDL: XXX XXX M7A2 M7A2 64662 31808 NEWRASTENIAe 2521 7342 //14411 kHz	CW	(JU)
M32	12832	6-3	0848	Wed	RDL: XXX XXX M7A2 M7A2 37812 72399 TAeGOWYJ 6926 3945 //14411 kHz	CW	(JU)
M32	12832	6-3	0851	Wed	RDL: XXX XXX M7A2 M7A2 26183 56603 TELEWIDENIE 6926 3457 //14411 kHz	CW	(JU)

M32	12832	6-3	0854	Wed	RDL: XXX XXX M7A2 M7A2 41903 62431 ROSSOSNOB 6801 6694 //14411 kHz	CW	(JU)
M32	13443	6-3	1315	Wed	XXX XXX WEGI WEGI 69011 TENEOGOD 5467 0325 UTNETOQUP 9831 1516 K	CW	(AB)
M32	13443	6-3	1319	Wed	XXX XXX W6BY W6BY 69531 PLAĖOBYS 9698 9434 SAJTOMLN 1194 5275 SUDOL-D 4724 3872 PAUKGUREL 2544 9184 K	CW	(AB)
M32	13443	6-3	1323	Wed	XXX XXX WEGI WEGI 3839 RINGSSUST 3154 6181 K	CW	(AB)
M32	13443	6-3	1336	Wed	XXX XXX RGT77 RGT77 59198 STEKLOWATYJ 4613 4910 K	CW	(AB)
M32	13443	6-3	1339	Wed	XXX XXX RGT77 RGT77 277GI2 WYHIBANIE 1716 9616 K	CW	(AB)
M32	13443	6-3	1343	Wed	XXX XXX TNOF TNOF BNR1 BNR1 64280 ANNEKSI- 1748 2336 K	CW	(AB)
M32	12832	6-3	1349	Wed	RDL: XXX XXX RGT77 RGT77 31609 34267 STIHIJNOSTX 0027 2402 BOBOBLOK 1556 1281 TROTUAR 0062 3573 //14411 kHz	CW	(JU)
M32	12832	6-3	1509	Wed	RDL: XXX XXX M7A2 M7A2 81298 98120 LAWROBUFF 9831 1516 //14411 kHz	CW	(JU)
M32	5293	12-3	0957	Tue	XXX XXX 1ShchRF 1ShchRF 67100 OBODOLYaZG 5390 8757 K	CW	(Gwr)
M32	13366	13-3	0958	Wed	Russian military i.p. GGCC K. GGCC RPT PBL K. QRV4 K.	CW	(AB)
M32a	5441	21-3	0945	Thu	XXX XXX RJV RJV 94266 WETROTRUS 6723 5988 K	CW	(Gwr)
M32a	5441	21-3	1009	Thu	XXX XXX RJV RJV 20596 KLUBOWOD 2863 4446 K	CW	(Gwr)
M32a	5441	21-3	1256	Thu	XXX XXX RJV RJV 97624 BOKOZhGUT 2076 9357 K	CW	(Gwr)
M32b	8816	6-3	0725	Wed	rjf94 rjc38 de 52952 qto 0706 qrd XLWF XLMD qre 1005 qbd 0445 k	CW	(WP3)
M32b	8816	6-3	0736	Wed	rjc38 rjf94 de 54478 qto 1721 qrd XLMD XLAA qbd 0430 qre 1854 k	CW	(WP3)
M32c	10653.5	8-3	1002	Fri	XXX XXX 1ShchRF 1ShchRF 52144 RYNOChNYJ 8112 9079	CW	(Gwr)
M32c	5293	21-3	1001	Thu	XXX XXX 1ShchRF 1ShchRF 87718 POKAZYWAN'E 7193 1075 K	CW	(Gwr)
M32c	5293	21-3	1100	Thu	XXX XXX 1ShchRF 1ShchRF 12481 NASMESHKA 2858 2167 K	CW	(Gwr)
M32c	5293	21-3	1106	Thu	XXX XXX 1ShchRF 1ShchRF 84644 LUCHOWEK 4148 8681 K	CW	(Gwr)
M32c	5293	21-3	1202	Thu	XXX XXX 1ShchRF 1ShchRF 65609 REZhOFLOT 9088 2511 K	CW	(Gwr)
M32c	5853.5	21-3	1527	Thu	XXX XXX 1ShchRF 1ShchRF 35026 PLENONEM 4882 8228 K	CW	(Gwr)
M41	2189	18-3	1719	Mon	7GME 7GME 722 1959 5043 66292916170000 1836 ABV 722 1959 5043 66292916170000 1836 7GME AR	CW	(F5JBR)
M41	2189	21-3	1810	Thu	i.p. 72219599317956444165820901927 =19499357955834165712701954 ABV 72219599317956444165820901927 =19499357955834165712701954 YP8R AR	CW	(F5JBR)
M41	6784.5	22-3	1501	Fri	4RVU 4RVU AR VVV VVV VVV VVV 4RVU 4RVU AR	CW	(F5JBR)
M42	13538	2-3	1000	Sat	RBD: Russian intel Chita wkg UDD: Russian intel Moscow. Messages unreadable. QSX 14722 kHz	FSK 100/500 ITA2	(Danix)
M42	14722	2-3	1000	Sat	UDD: Russian intel Moscow wkg RBD: Russian intel Chita. 11100 30109 45872 02041 05003 + 5FGs and 11100 30109 77875 02042 05003 + 5LGs. QSX 13538 kHz	FSK 100/500 ITA2	(Danix)
M42	13538	3-3	1000	Sun	RBD: Russian intel Chita wkg UDD: Russian intel Moscow. 11100 30109 45789 03045 05009 + 5FGs and 11100 30109 61234 03046 05009 + 5LGs. QSX 14722 kHz	FSK 100/500 ITA2	(Danix)
M42	14722	3-3	1000	Sun	UDD: Russian intel Moscow wkg RBD: Russian intel Chita. 11100 30109 12345 03045 05003 + 5FGs and 11100 30109 12345 03046 05003 + 5LGs. QSX 13538 kHz	FSK 100/500 ITA2	(Danix)
M42	19323	4-3	0800	Mon	Russian intel Moscow wkg URG: Russian embassy New Delhi IND. QSY to 14985 kHz at 0806 UTC	FSK-CW	(Danix)
M42	14985	4-3	0806	Mon	Russian intel Moscow wkg URG: Russian embassy New Delhi IND. 5FGs and 11100 10053	FSK-CW/FSK 100/500	(Danix)

					45678 04004 02509 + 5LGs. Many repeats. QSX 16025 kHz	ITA2	
M42	16025	4-3	0806	Mon	URG: Russian embassy New Delhi IND wkg Russian intel Moscow. 11100 10053 51840 04003 02503 + 5FGs and 11100 10053 04981 04004 02503 + 5LGs. Many repeats. QSX 14985 kHz	OOK-CW/FSK 100/500 ITA2	(Danix)
M42	13538	4-3	1000	Mon	RBD: Russian intel Chita wkg UDD: Russian intel Moscow. Messages unreadable. QSX 14722 kHz	FSK 100/500 ITA2/CW	(AB)
M42	14722	4-3	1000	Mon	UDD: Russian intel Moscow wkg RBD: Russian intel Chita. 11100 30109 79413 04049 05003 + 5FGs and 11100 30109 78496 04050 05003 + 5LGs QSX 13538 kHz	FSK 100/500 ITA2/CW	(AB)
M42	14722	7-3	1000	Thu	UDD: Russian intel Moscow wkg RBD: Russian intel Chita	FSK 100/500 ITA2/CW	(AB)
M42	16294	12-3	1135	Tue	MFA, Moscow wkg Russian embassy, Dushanbe. QSX 14879 kHz	MFSK-66/45Bd	(Danix)
M42	11027	13-3	1046	Wed	MFA, Moscow clg Russian embassy, Dushanbe. Alternating with 13957 kHz. No link established	3000Bd 8PSK	(Danix)
M42	13957	13-3	1046	Wed	MFA, Moscow clg Russian embassy, Dushanbe. Alternating with 11027 kHz. No link established	3000Bd 8PSK	(Danix)
M42	9950	13-3	1319	Wed	Russian intel Orenburg wkg Russian intel Moscow: 11100 10129 32063 13045 03003 + 5FGs. QSX 10980 kHz	FSK 100/500 ITA2	(Danix)
M42	10980	13-3	1319	Wed	Russian intel Moscow wkg Russian intel Orenburg: 11100 10129 12457 13032 02509 + 5FGs. QSX 9950 kHz	FSK 100/500 ITA2	(Danix)
M42	11027	14-3	0813	Thu	MFA, Moscow wkg Russian embassy, Dushanbe. QSX 14876 kHz	MFSK-66/45Bd	(Danix)
M42	11027	14-3	1102	Thu	MFA, Moscow wkg Russian embassy, Dushanbe	128-tone 21Bd OFDM	(Danix)
M42	17516	18-3	1135	Mon	Russian intel Moscow. UZR UZR UZR 2/600 11100 90138 78963 18007 03009 + 5FGs, 11100 90138 36987 18008 03009 + 5FGs	FSK 75/500 ITA2	(Danix)
M42	14981	18-3	1142	Mon	Russian intel Moscow. UZR UZR UZR 2/600 11100 90138 78963 18007 03009 + 5FGs, 11100 90138 36987 18008 03009 + 5FGs	FSK 75/500 ITA2	(Danix)
M42b	6837	18-3	1436	Mon	ZE4K wkg P8RK	CW	(F5JBR)
M42b	6817	18-3	1441	Mon	ZE4K wkg P8RK	CW	(F5JBR)
M42b	6807	18-3	1444	Mon	ZE4K wkg P8RK	FSK 50/500	(F5JBR)
M42b	9274	19-3	0730	Tue	K4MT wkg NT9P	FSK 50/500	(F5JBR)
M42b	5833	22-3	0620	Fri	BFRW wkg WL4I (QX 5328 kHz)	FSK 50/500	(F5JBR)
M42b	8072	28-3	1245	Thu	BVBK wkg HKDR	FSK 50/500	(F5JBR)
M42b	2250	28-3	1820	Thu	KU8I wkg PGUN: NW 378 100 28 1810 3110 = K (QX 2750 kHz)	CW	(F5JBR)
M89	4131	1-3	0004	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	1-3	0512	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4720	1-3	2030	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	5150	1-3	2030	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	3156	1-3	2034	Fri	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	1-3	2034	Fri	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3842	1-3	2037	Fri	V K9S3 (x3) DE Q5R2 (x2) //4135	CW	(JPL)
M89	4135	1-3	2037	Fri	V 3D1U (x3) DE G25H (x2) //384	CW	(JPL)
M89	5177	2-3	1049	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)

M89	3842	2-3	1601	Sat	V K9S3 (x3) DE Q5R2 (x2) MSG NR 69 CK 499 ..303 0000 = DTN. NADU N34N ... //4135 sending different round slip	CW	(JPL)
M89	4135	2-3	1601	Sat	V 3D1U (x3) DE G25H (x2) MSG NR 69 CK 499 ..303 0000 = DTN. NADU N34N ... //3842 sending different round slip	CW	(JPL)
M89	3156	2-3	1606	Sat	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	2-3	1606	Sat	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	4131	2-3	2107	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4321	3-3	1212	Sun	i.p. 3NAU 3UD7 NTD6 AT4N 37TD ...	CW	(JPL)
M89	3156	3-3	1222	Sun	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	3-3	1222	Sun	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	4131	3-3	1224	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3842	3-3	1832	Sun	V 8FDH (x3) DE 5J9K (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	3-3	1832	Sun	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	4131	4-3	1347	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3156	4-3	1348	Mon	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	4-3	1348	Mon	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3842	4-3	1349	Mon	V 8FDH (x3) DE 5J9K (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	4-3	1349	Mon	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	4620	6-3	1220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 5920 and 6840	CW	(JPL)
M89	4860	6-3	1220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 5920 and 6840	CW	(JPL)
M89	3156	6-3	1225	Wed	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	6-3	1225	Wed	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3842	6-3	1227	Wed	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)
M89	4720	6-3	1230	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	5150	6-3	1230	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	4572	6-3	1238	Wed	i.p. 3346 6N74 6767 66A5	CW	(JPL)
M89	3819	6-3	1248	Wed	i.p. = = UA7N 364. ND46 547A 46UD A3TD ...	CW	(JPL)
M89	3692	6-3	1251	Wed	i.p. = R QSL 2 EEEEE R QSL 2108 K	CW	(JPL)
M89	4135	6-3	1548	Wed	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	3786	6-3	1602	Wed	i.p. 6N3T UN7N 5AN5 N436 UUD5 ... AR	CW	(JPL)
M89	4131	6-3	1623	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4720	6-3	1930	Wed	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	3757	6-3	1953	Wed	i.p. 01W = DDTD U763 T7DA U465 ...	CW	(JPL)
M89	5920	7-3	1220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 6840	CW	(JPL)
M89	6840	7-3	1220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 5920	CW	(JPL)
M89	5858	7-3	1227	Thu	V DFDH (x3) DE 5JNK (x2)	CW	(JPL)
M89	3156	7-3	1930	Thu	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	7-3	1930	Thu	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	5150	7-3	1930	Thu	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	3842	7-3	1931	Thu	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)

M89	4135	7-3	1931	Thu	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	3156	8-3	1118	Fri	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	8-3	1118	Fri	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3842	8-3	1119	Fri	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	8-3	1119	Fri	V K9S3 (x3) DE Q5r2 (x2) //3842 sending different round slip	CW	(JPL)
M89	4720	8-3	1130	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	5150	8-3	1130	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	4620	8-3	1220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 6840	CW	(JPL)
M89	4860	8-3	1220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 6840	CW	(JPL)
M89	6840	8-3	1220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860	CW	(JPL)
M89	4720	8-3	1230	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	5150	8-3	1230	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	7602	10-3	1413	Sun	V DKG6 de 3A7D	CW	(F5JBR)
M89	7602	10-3	1413	Sun	DKG6 de 3A7D V	CW	(F5JBR-J)
M89	3642	10-3	1440	Sun	DKG6 de 3A7D V	CW	(F5JBR-J)
M89	3842	10-3	1456	Sun	DFDH de 5JNK K	CW	(F5JBR-J)
M89	4135	10-3	1459	Sun	K9S3 de Q5R2 K	CW	(F5JBR-J)
M89	5177	11-3	1110	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3156	11-3	1119	Mon	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	11-3	1119	Mon	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	4620	11-3	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 5920 and 6840	CW	(JPL)
M89	4860	11-3	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 5920 and 6840	CW	(JPL)
M89	5920	11-3	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 6840	CW	(JPL)
M89	6840	11-3	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 5920	CW	(JPL)
M89	3842	11-3	1125	Mon	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	11-3	1125	Mon	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	3098	11-3	1127	Mon	i.p. 3A6T A3N6 745U T4UN 3A6D U4N3	CW	(JPL)
M89	4720	11-3	1130	Mon	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	5150	11-3	1130	Mon	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	4230	11-3	1141	Mon	i.p. HR NR 306 HR NR 306 HR NR 306 SK SK	CW	(JPL)
M89	4620	11-3	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 6840	CW	(JPL)
M89	4860	11-3	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 6840	CW	(JPL)
M89	6840	11-3	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860	CW	(JPL)
M89	5177	11-3	1429	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4720	11-3	1430	Mon	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	5150	11-3	1430	Mon	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	4113	11-3	1455	Mon	i.p. MSG NR 7.42 CK 97 68 0412 2253 RMKS RMKS 4273 TO 4028 MSG NR 681	CW	(JPL)
M89	4620	11-3	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 5920 and 6840	CW	(JPL)
M89	4860	11-3	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 5920 and 6840	CW	(JPL)
M89	5920	11-3	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 6840	CW	(JPL)

M89	6840	11-3	2320	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 5920	CW	(JPL)
M89	5177	12-3	0020	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5858	12-3	0022	Tue	V DFDH (x3) DE 5JNK (x2)	CW	(JPL)
M89	6913	12-3	0026	Tue	V 3JWV (x3) DE QH4P (x2) //7397	CW	(JPL)
M89	7397	12-3	0026	Tue	V 3JWV (x3) DE QH4P (x2) //6913	CW	(JPL)
M89	3156	12-3	1532	Tue	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	12-3	1532	Tue	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3156	13-3	1730	Wed	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	13-3	1730	Wed	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3842	13-3	1733	Wed	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	13-3	1733	Wed	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	4131	15-3	1712	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3842	15-3	1719	Fri	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	15-3	1719	Fri	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	3156	15-3	1724	Fri	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	15-3	1724	Fri	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	4620	15-3	2320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 5920 and 6840	CW	(JPL)
M89	4860	15-3	2320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 5920 and 6840	CW	(JPL)
M89	5920	15-3	2320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 6840	CW	(JPL)
M89	6840	15-3	2320	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 5920	CW	(JPL)
M89	5858	15-3	2326	Fri	V DFDH (x3) DE 5JNK (x2)	CW	(JPL)
M89	4720	15-3	2330	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	5150	15-3	2330	Fri	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	3156	16-3	1723	Sat	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	16-3	1723	Sat	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3842	16-3	1725	Sat	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	16-3	1725	Sat	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	4131	17-3	1201	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4123	17-3	1203	Sun	i.p. 7GA NR 1594 CK 35 54 0317 2003 RMKS 3.223 TO 9.61 K R = NDA5 .T35 43N7 D3.7 ... AR R 7G GA K U 7G GA K	CW	(JPL)
M89	3156	17-3	1216	Sun	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	17-3	1216	Sun	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	4620	17-3	1220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 5920 and 6840	CW	(JPL)
M89	4860	17-3	1220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 5920 and 6840	CW	(JPL)
M89	5920	17-3	1220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 6840	CW	(JPL)
M89	6840	17-3	1220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 5920	CW	(JPL)
M89	4135	17-3	1224	Sun	V DFDH (x3) DE 5JNK (x2)	CW	(JPL)
M89	4526	17-3	1226	Sun	i.p. R QSA 2 QSA ? K R QSA 1 K. R R IEC .. 2. 4 K. R IEC 56.8 K	CW	(JPL)
M89	3842	17-3	1238	Sun	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	17-3	1238	Sun	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)

M89	4131	18-3	1526	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3842	18-3	1530	Mon	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	18-3	1530	Mon	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	3156	18-3	1532	Mon	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	18-3	1532	Mon	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3842	18-3	1800	Mon	V DFDH de 5JNK	CW	(F5JBR)
M89	7146	19-3	1239	Tue	i.p. R NR 1214 CK 191 23 0319 2030 RMKS 4.20 TO 5940 = 4TU NR. BT N BT 3AUT 436T AU56 N67D ...	CW	(JPL)
M89	4131	19-3	1245	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	19-3	1804	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3156	19-3	1820	Tue	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	19-3	1820	Tue	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3842	19-3	1821	Tue	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	19-3	1821	Tue	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	4131	22-3	1341	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3156	22-3	1342	Fri	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	22-3	1342	Fri	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3842	22-3	1344	Fri	V DFDH (x3) DE 5JNK (x2) //4135	CW	(JPL)
M89	3156	22-3	1600	Fri	V 3JWV de QH4P //3597 kHz	CW	(F5JBR-J)
M89	3597	22-3	1600	Fri	V 3JWV de QH4P //3156 kHz	CW	(F5JBR-J)
M89	4620	23-3	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4860 and 5920 and 6840	CW	(JPL)
M89	4720	23-3	1120	Sat	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //5150	CW	(JPL)
M89	4860	23-3	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 5920 and 6840	CW	(JPL)
M89	5150	23-3	1120	Sat	V WNF(x3) DE FXM (x2) (R5) QSA ? QSV K //4720	CW	(JPL)
M89	5920	23-3	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 6840	CW	(JPL)
M89	6840	23-3	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (R5) //4620 and 4860 and 5920	CW	(JPL)
M89	3842	23-3	1127	Sat	V DFDH (x3) DE 5JNK (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	23-3	1127	Sat	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	3156	23-3	1128	Sat	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	23-3	1128	Sat	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	7891	23-3	1207	Sat	R QSA 2 IEC = KBV. AR K R QSA 2 = H6.5 AR K (Both stations on this frequency)	CW	(JPL)
M89	3156	23-3	1218	Sat	V 3JWV (x3) DE QH4P (x2) //3597 and 7397	CW	(JPL)
M89	3597	23-3	1218	Sat	V 3JWV (x3) DE QH4P (x2) //3156 and 7397	CW	(JPL)
M89	7397	23-3	1218	Sat	V 3JWV (x3) DE QH4P (x2) //3156 and 3597	CW	(JPL)
M89	4131	23-3	1747	Sat	V JNDJ (x3) DE SLBC (x2) Note: Slight change in C/S. Sending JNDJ vice JKDJ	CW	(JPL)
M89	3842	24-3	1612	Sun	V K9S3 (x3) DE Q5R2 (x2) //4135 sending different round slip	CW	(JPL)
M89	4131	24-3	1612	Sun	V JNDJ (x3) DE SLBC (x2) Note: Slight change in C/S. Sending JNDJ vice JKDJ	CW	(JPL)
M89	3156	24-3	1613	Sun	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	24-3	1613	Sun	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	4135	24-3	1615	Sun	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)

M89	4131	24-3	2319	Sun	V JNDJ (x3) DE SLBC (x2) Note: Slight change in C/S. Sending JNDJ vice JKDJ	CW	(JPL)
M89	3597	24-3	2321	Sun	V 3JWV (x3) DE QH4P (x2) //7397	CW	(JPL)
M89	6913	24-3	2321	Sun	V 3JWV (x3) DE QH4P (x2) //3597 and 7397	CW	(JPL)
M89	7397	24-3	2321	Sun	V 3JWV (x3) DE QH4P (x2) //3597 and 6913	CW	(JPL)
M89	5858	24-3	2325	Sun	V K9S3 (x3) DE Q5R2 (x2)	CW	(JPL)
M89	6913	25-3	0844	Mon	V 3JWV (x3) DE QH4P (x2) //7397	CW	(JPL)
M89	7397	25-3	0844	Mon	V 3JWV (x3) DE QH4P (x2) //6913	CW	(JPL)
M89	5858	25-3	0852	Mon	V K9S3 (x3) DE Q5R2 (x2)	CW	(JPL)
M89	5201	25-3	0857	Mon	U35D 7U46 N4TN U67N AUNN AN5A ...II = RPT .. (Other station also on this frequency)	CW	(JPL)
M89	4131	25-3	1843	Mon	V JNDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	26-3	1212	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	27-3	1743	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	29-3	1213	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3156	29-3	1216	Fri	V 3JWV (x3) DE QH4P (x2) //3597	CW	(JPL)
M89	3597	29-3	1216	Fri	V 3JWV (x3) DE QH4P (x2) //3156	CW	(JPL)
M89	3842	29-3	1217	Fri	V K9S3 (x3) DE Q5R2 (x2) //4135 sending different round slip	CW	(JPL)
M89	4135	29-3	1217	Fri	V 3D1U (x3) DE G25H (x2) //3842 sending different round slip	CW	(JPL)
M89	4131	29-3	1524	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M95	5801	1-3	0449	Fri	V DKG6 (x3) DE 3A7D (x2) VVV HR 7G GA NR 001/CCK CK 299 21 04 ... //10180	CW	(JPL)
M95	10180	1-3	0449	Fri	V DKG6 (x3) DE 3A7D (x2) VVV HR 7G GA NR 001/CCK CK 299 21 04 ... //5801	CW	(JPL)
M95	3642	1-3	2030	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	1-3	2030	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	2-3	1047	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	2-3	1047	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	2-3	1548	Sat	V DKG6 (x3) DE 3A7D (x2) 574D U7AT D5AT 4T36 A4DT ... AR QSL ? HR WK NR 070 //7602	CW	(JPL)
M95	7602	2-3	1548	Sat	V DKG6 (x3) DE 3A7D (x2) 574D U7AT D5AT 4T36 A4DT ... AR QSL ? HR WK NR 070 //3642	CW	(JPL)
M95	4243	3-3	1151	Sun	i.p. A HR 7G GA NR 06 CK 180 35 0303 1540 = UTU TT3 3U6 3A4 TTU 773 354 N3D 353 ... AR	CW	(JPL)
M95	3642	3-3	1219	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	3-3	1219	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	3642	4-3	1345	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	4-3	1345	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	6-3	1220	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	6-3	1220	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	6-3	1956	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	6-3	1956	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	7-3	1036	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	7-3	1036	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	7-3	1927	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	8-3	1113	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	8-3	1113	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)

M95	4364	8-3	1138	Fri	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0190 CK 267 35 0308 1614 = TTD 3U6 3AN 3U7 TAU ... //8073	CW	(JPL)
M95	8073	8-3	1138	Fri	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0190 CK 267 35 0308 1614 = TTD 3U6 3AN 3U7 TAU ... //4363	CW	(JPL)
M95	4243	8-3	1142	Fri	V HR MSG TO YR PSE CY NR 020 CK 17 35 0308 1528 = 5AA UTT TTN 3U6 3A4 ...	CW	(JPL)
M95	3642	8-3	1301	Fri	i.p. = COMM/21.0/XZ709..3/6450/6689 AR QSL ? HR WK NR 0..K. V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	8-3	1301	Fri	i.p. = COMM/21.0/XZ709..3/6450/6689 AR QSL ? HR WK NR 0..K. V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	11-3	1102	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	11-3	1102	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	4364	11-3	1137	Mon	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0196 CK 2.. 35 0311 1636 = TAA 3U6 3U7 TAA 773 TA7 773 ... //8073	CW	(JPL)
M95	8073	11-3	1137	Mon	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0196 CK 2.. 35 0311 1636 = TAA 3U6 3U7 TAA 773 TA7 773 ... //4364	CW	(JPL)
M95	4243	11-3	1146	Mon	VV HR MSG TO YR PSE CY NR 038 CK 34 35 0312 1520 = .AA UTT TAU 3U6 3A5 TTU TT4 773 (Cont'd) AR	CW	(JPL)
M95	4243	11-3	1150	Mon	VV HR MSG TO YR PSE CY NR 026 CK 46 35 0311 1528 = 5AA UTT TAA 3U6 3A4 TTU TT3 773 353 N3D ...	CW	(JPL)
M95	3642	11-3	1419	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	11-3	1419	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	4364	12-3	0005	Tue	05 05 05 V BNGC (x3) DE XSV85 (x2) HR MSG PSE CY NR 0197 CK 100 35 0312 0657 = TUU TAU 3U4 3U4 3A4 EEE FM 01W GA =	CW	(JPL)
M95	3642	12-3	0018	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	12-3	0018	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	4364	12-3	1139	Tue	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0198 CK 284 35 0312 1556 = //8073	CW	(JPL)
M95	8073	12-3	1139	Tue	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0198 CK 284 35 0312 1556 = //4364	CW	(JPL)
M95	3642	13-3	1725	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	16-3	1721	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	16-3	1721	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	4364	17-3	1137	Sun	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0216 CK 162 35 03A7 A654 = TA7 3U6 3AN 3U7 TAU ... //8073	CW	(JPL)
M95	8073	17-3	1137	Sun	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0216 CK 162 35 03A7 A654 = TA7 3U6 3AN 3U7 TAU ... //4364	CW	(JPL)
M95	4243	17-3	1149	Sun	VV HR MSG TO YR PSE CY NR 038 CK 30 35 0317 1516 = 5AA UTT TA7 3U6 3A4 ...	CW	(JPL)
M95	5801	17-3	1200	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	17-3	1200	Sun	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	17-3	1754	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	17-3	1754	Sun	V DKG6 (x3) DE 3A7D (x2) //36422	CW	(JPL)
M95	3642	18-3	1528	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)

M95	7602	18-3	1528	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5801	19-3	1244	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	19-3	1802	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	3642	19-3	1818	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	19-3	1818	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	8073	22-3	1135	Fri	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0228 CK 409 35 0322 1606 = = TUU 3U6 3AN 3U7 TAU ...	CW	(JPL)
M95	4243	22-3	1147	Fri	VVV HR 7G TO YR PSE CY NR 048 CK 55 35 0322 1531 = 5AA UTT TUU 3U6 3A4 ...	CW	(JPL)
M95	5801	22-3	1216	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	22-3	1216	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	4364	23-3	1132	Sat	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0232 CK 32 35 0323 1631 = TT3 N5U TU3 N53 TAD N54 7TT TT5 746 7T5 ... //8073	CW	(JPL)
M95	8073	23-3	1140	Sat	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0232 CK 32 35 0323 1631 = TT3 N5U TU3 N53 TAD N54 7TT TT5 746 7T5 ... //4364	CW	(JPL)
M95	4243	23-3	1148	Sat	VV HR MSG TO YR PSE CY NR 01 CK 26 49 0323 1830 = 766 67D ND5 A6D 66T DD6 D7T DD3 37U N73 ...	CW	(JPL)
M95	3642	23-3	1749	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	23-3	1749	Sat	V DKG6 (x3) DE 3A7D (x2) //3642/	CW	(JPL)
M95	3642	24-3	1610	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	25-3	0834	Mon	V DKG6 (x3) DE 3A7D (x2) VVV 7G GA NR 0 EEEE NR 093/CCK CK 199 21 0325 1640 RMKS 6457 TO 6487 = ... //10180	CW	(JPL)
M95	10180	25-3	0834	Mon	V DKG6 (x3) DE 3A7D (x2) VVV 7G GA NR 0 EEEE NR 093/CCK CK 199 21 0325 1640 RMKS 6457 TO 6487 = ... //5801	CW	(JPL)
M95	4364	25-3	1139	Mon	V BNGC (x3) DE XSV85 (x2) NR 0240 CK 198 35 0325 1709 = TU5 3U6 3AN 3U7 TAU 773 357 373 4T3 ... //8073	CW	(JPL)
M95	8073	25-3	1139	Mon	V BNGC (x3) DE XSV85 (x2) NR 0240 CK 198 35 0325 1709 = TU5 3U6 3AN 3U7 TAU 773 357 373 4T3 ... //4363	CW	(JPL)
M95	4243	25-3	1148	Mon	V HR MSG TO YR PSE CY NR 01 CK 26 49 0323 1830 = 766 67D ND5 A6D 66T DD6 D7T DD3 37U N73 ...	CW	(JPL)
M95	3642	25-3	1342	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M95	5801	26-3	0659	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	26-3	0659	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	4364	26-3	1139	Tue	V BNGC DE XSV85 NR 0244 CK 150 35 0326 1509 = TU6 3U6 3AN 3U7 TAU 773 356 35N 4T3 NN3 (ContEd) //8073	CW	(JPL)
M95	8073	26-3	1139	Tue	V BNGC DE XSV85 NR 0244 CK 150 35 0326 1509 = TU6 3U6 3AN 3U7 TAU 773 356 35N 4T3 NN3 (ContEd) //4364	CW	(JPL)
M95	4243	26-3	1147	Tue	V HR MSG TO YR PSE CY NR 055 CK 64 35 0326 1531 = 5AA UTT TU6 3U6 3A4 TTU 773 35A (ContEd)	CW	(JPL)
M95	3642	27-3	1740	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	27-3	1740	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)

M95	4364	29-3	1148	Fri	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0251 CK 265 35 0329 1554 = TUN 3U6 3AN 3U7 TAU ... //8073	CW	(JPL)
M95	8073	29-3	1148	Fri	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0251 CK 265 35 0329 1554 = TUN 3U6 3AN 3U7 TAU ... //4364	CW	(JPL)
M95	4243	29-3	1152	Fri	i.p. 7G AGN NR 062 CK 46 35 0329 1553 = 5AA UTT TUN 3U6 7TA N44 3A4 TTU TT3 773 (ContEd) AR	CW	(JPL)
M95	5801	29-3	1212	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M95	10180	29-3	1212	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M95	3642	29-3	1521	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M95	7602	29-3	1521	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
MX	7053	1-3	1458	Fri	Beacon V	CW	(AB)
MX	10871.7	2-3	1836	Sat	Beacon D, Sevastopol	CW	(AB)
MX	7508.7	2-3	1837	Sat	Beacon D, Sevastopol	CW	(AB)
MX	7509.1	2-3	1837	Sat	Beacon A, Astrakhan	CW	(AB)
MX	5153.7	2-3	1840	Sat	Beacon D, Sevastopol	CW	(AB)
MX	5154.1	2-3	1840	Sat	Beacon A, Astrakhan	CW	(AB)
MX	5156.6	2-3	1841	Sat	Beacon L, St Petersburg	CW	(AB)
MX	4558.1	2-3	1842	Sat	Beacon A, Astrakhan	CW	(AB)
MX	3594.9	2-3	1844	Sat	Beacon S, Severomorsk	CW	(AB)
MX	4031	11-3	0015	Mon	Beacon V	CW	(CK)
MX	5466	11-3	0029	Mon	Beacon V	CW	(CK)
MX	5466	13-3	1930	Wed	Beacon V	CW	(MPJ)
MX	5466	14-3	2018	Thu	Beacon V	CW	(AB)
MX	4558.1	14-3	2019	Thu	Beacon A, Astrakhan	CW	(AB)
MX	5153.7	14-3	2019	Thu	Beacon D, Sevastopol	CW	(AB)
MX	5154.1	14-3	2019	Thu	Beacon A, Astrakhan	CW	(AB)
MX	7508.7	14-3	2019	Thu	Beacon D, Sevastopol	CW	(AB)
MX	7509.1	14-3	2019	Thu	Beacon A, Astrakhan	CW	(AB)
MX	8498.1	16-3	1552	Sat	Beacon A, Astrakhan	CW	(ES-HOL)
MX	5155.4	16-3	1600	Sat	Beacon M, Magadan	CW	(AB-J)
MX	7039.4	16-3	1614	Sat	Beacon M, Magadan	CW	(AB-J)
MX	8495.3	16-3	1615	Sat	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB-J)
MX	7598.7	16-3	1944	Sat	Beacon D, Sevastopol	CW	(AB)
MX	10871.7	18-3	1645	Mon	Beacon D, Sevastopol	CW	(AB)
MX	10871.9	18-3	1645	Mon	Beacon S, Severomorsk	CW	(AB)
MX	10872	18-3	1645	Mon	Beacon C, Moscow	CW	(AB)
MX	10872.1	18-3	1645	Mon	Beacon A, Astrakhan	CW	(AB)
MX	5156.8	19-3	1215	Tue	Beacon L, St Petersburg	CW	(ES-POL)
MX	5590	19-3	1440	Tue	Beacon V	CW	(ES-POL)
MX	5466	26-3	1917	Tue	Beacon V	CW	(MPJ)

P03a	10302	1-3	1500	Fri	Polish intel.	BPSK-63	(AB)
P03a	10302	1-3	1505	Fri	Polish intel.	BPSK-63	(AB)
P03a	9902	1-3	1635	Fri	Polish intel.	BPSK-63	(AB)
P03a	9902	1-3	1640	Fri	Polish intel.	BPSK-63	(AB)
P03a	13873	2-3	1140	Sat	Polish intel.	BPSK-63	(AB)
P03a	13873	2-3	1145	Sat	Polish intel.	BPSK-63	(AB)
P03a	10728	2-3	1225	Sat	Polish intel.	BPSK-63	(AB)
P03a	10728	2-3	1230	Sat	Polish intel.	BPSK-63	(AB)
P03a	5779	2-3	1435	Sat	Polish intel.	BPSK-63	(AB)
P03a	5779	2-3	1440	Sat	Polish intel.	BPSK-63	(AB)
P03a	14865	2-3	1600	Sat	Polish intel.	BPSK-63	(AB)
P03a	14865	2-3	1605	Sat	Polish intel.	BPSK-63	(AB)
P03a	13873	3-3	1410	Sun	Polish intel.	BPSK-63	(AB)
P03a	13873	3-3	1415	Sun	Polish intel.	BPSK-63	(AB)
P03a	13575	3-3	1440	Sun	Polish intel.	BPSK-63	(AB)
P03a	13575	3-3	1445	Sun	Polish intel.	BPSK-63	(AB)
P03a	10302	3-3	1500	Sun	Polish intel.	BPSK-63	(AB)
P03a	10302	3-3	1505	Sun	Polish intel.	BPSK-63	(AB)
P03a	5946	3-3	1730	Sun	Polish intel.	BPSK-63	(AB)
P03a	5946	3-3	1735	Sun	Polish intel.	BPSK-63	(AB)
P03a	13973	4-3	1410	Mon	Polish intel.	BPSK-63	(AB)
P03a	13973	4-3	1415	Mon	Polish intel.	BPSK-63	(AB)
P03a	9902	4-3	1635	Mon	Polish intel.	BPSK-63	(AB)
P03a	9902	4-3	1640	Mon	Polish intel.	BPSK-63	(AB)
P03a	15800	5-3	1415	Tue	Polish intel.	BPSK-63	(AB)
P03a	15800	5-3	1420	Tue	Polish intel.	BPSK-63	(AB)
P03a	5946	5-3	1725	Tue	Polish intel.	BPSK-63	(AB)
P03a	5946	5-3	1730	Tue	Polish intel.	BPSK-63	(AB)
P03a	10728	6-3	1225	Wed	Polish intel.	BPSK-63	(AB)
P03a	10728	6-3	1230	Wed	Polish intel.	BPSK-63	(AB)
P03a	5779	6-3	1435	Wed	Polish intel.	BPSK-63	(AB)
P03a	5779	6-3	1440	Wed	Polish intel.	BPSK-63	(AB)
P03a	14865	6-3	1600	Wed	Polish intel.	BPSK-63	(AB)
P03a	14865	6-3	1605	Wed	Polish intel.	BPSK-63	(AB)
P03a	15800	7-3	1415	Thu	Polish intel.	BPSK-63	(AB)
P03a	15800	7-3	1420	Thu	Polish intel.	BPSK-63	(AB)
P03a	9902	8-3	1635	Fri	Polish intel.	BPSK-63	(BW3-HOL)
P03a	9902	8-3	1640	Fri	Polish intel.	BPSK-63	(BW3-HOL)
P03a	13873	9-3	1140	Sat	Polish intel.	BPSK-63	(AB)
P03a	13873	9-3	1145	Sat	Polish intel.	BPSK-63	(AB)

P03a	10728	9-3	1225	Sat	Polish intel.	BPSK-63	(AB)
P03a	10728	9-3	1230	Sat	Polish intel.	BPSK-63	(AB)
P03a	5779	9-3	1435	Sat	Polish intel.	BPSK-63	(AB)
P03a	5779	9-3	1440	Sat	Polish intel.	BPSK-63	(AB)
P03a	5946	10-3	1730	Sun	Polish intel.	BPSK-63	(AB)
P03a	5946	10-3	1735	Sun	Polish intel.	BPSK-63	(AB)
P03a	13873	12-3	1140	Tue	Polish intel.	BPSK-63	(AB)
P03a	13873	12-3	1145	Tue	Polish intel.	BPSK-63	(AB)
P03a	15800	12-3	1415	Tue	Polish intel.	BPSK-63	(AB)
P03a	15800	12-3	1420	Tue	Polish intel.	BPSK-63	(AB)
P03a	5946	12-3	1725	Tue	Polish intel.	BPSK-63	(AB)
P03a	5946	12-3	1730	Tue	Polish intel.	BPSK-63	(AB)
P03a	10728	13-3	1225	Wed	Polish intel.	BPSK-63	(AB)
P03a	10728	13-3	1230	Wed	Polish intel.	BPSK-63	(AB)
P03a	5779	13-3	1435	Wed	Polish intel.	BPSK-63	(AB)
P03a	5779	13-3	1440	Wed	Polish intel.	BPSK-63	(AB)
P03a	13575	15-3	1440	Fri	Polish intel.	BPSK-63	(AB)
P03a	13575	15-3	1445	Fri	Polish intel.	BPSK-63	(AB)
P03a	10302	15-3	1500	Fri	Polish intel.	BPSK-63	(AB)
P03a	10302	15-3	1505	Fri	Polish intel.	BPSK-63	(AB)
P03a	9902	15-3	1635	Fri	Polish intel.	BPSK-63	(AB)
P03a	9902	15-3	1640	Fri	Polish intel.	BPSK-63	(AB)
P03a	7469	16-3	0500	Sat	Polish intel.	BPSK-63	(AB)
P03a	7469	16-3	0500	Sat	Polish intel.	BPSK-63	(AB)
P03a	13873	16-3	1140	Sat	Polish intel.	BPSK-63	(AB)
P03a	13873	16-3	1145	Sat	Polish intel.	BPSK-63	(AB)
P03a	10728	16-3	1225	Sat	Polish intel.	BPSK-63	(AB)
P03a	10728	16-3	1230	Sat	Polish intel.	BPSK-63	(AB)
P03a	5779	16-3	1435	Sat	Polish intel.	BPSK-63	(AB)
P03a	5779	16-3	1440	Sat	Polish intel.	BPSK-63	(AB)
P03a	13873	17-3	1410	Sun	Polish intel.	BPSK-63	(AB)
P03a	13873	17-3	1415	Sun	Polish intel.	BPSK-63	(AB)
P03a	13575	17-3	1440	Sun	Polish intel.	BPSK-63	(AB)
P03a	13575	17-3	1445	Sun	Polish intel.	BPSK-63	(AB)
P03a	10302	17-3	1500	Sun	Polish intel.	BPSK-63	(AB)
P03a	10302	17-3	1505	Sun	Polish intel.	BPSK-63	(AB)
P03a	5946	17-3	1730	Sun	Polish intel.	BPSK-63	(AB)
P03a	5946	17-3	1735	Sun	Polish intel.	BPSK-63	(AB)
P03a	13873	18-3	1410	Mon	Polish intel.	BPSK-63	(AB)
P03a	13873	18-3	1415	Mon	Polish intel.	BPSK-63	(AB)

P03a	9902	18-3	1635	Mon	Polish intel.	BPSK-63	(AB)
P03a	9902	18-3	1640	Mon	Polish intel.	BPSK-63	(AB)
P03a	13873	19-3	1140	Tue	Polish intel.	BPSK-63	(AB)
P03a	13873	19-3	1145	Tue	Polish intel.	BPSK-63	(AB)
P03a	15800	19-3	1415	Tue	Polish intel.	BPSK-63	(AB)
P03a	15800	19-3	1420	Tue	Polish intel.	BPSK-63	(AB/BW3-RUS)
P03a	5946	19-3	1725	Tue	Polish intel.	BPSK-63	(AB)
P03a	5946	19-3	1730	Tue	Polish intel.	BPSK-63	(AB)
P03a	10728	20-3	1225	Wed	Polish intel.	BPSK-63	(AB)
P03a	10728	20-3	1230	Wed	Polish intel.	BPSK-63	(AB)
P03a	5779	20-3	1435	Wed	Polish intel.	BPSK-63	(AB)
P03a	5779	20-3	1440	Wed	Polish intel.	BPSK-63	(AB)
P03a	14865	20-3	1600	Wed	Polish intel.	BPSK-63	(AB)
P03a	14865	20-3	1605	Wed	Polish intel.	BPSK-63	(AB)
P03a	15800	21-3	1415	Thu	Polish intel.	BPSK-63	(AB)
P03a	15800	21-3	1420	Thu	Polish intel.	BPSK-63	(AB)
P03a	13575	22-3	1440	Fri	Polish intel.	BPSK-63	(AB)
P03a	13575	22-3	1445	Fri	Polish intel.	BPSK-63	(AB)
P03a	10302	22-3	1500	Fri	Polish intel.	BPSK-63	(AB)
P03a	10302	22-3	1505	Fri	Polish intel.	BPSK-63	(AB)
P03a	9902	22-3	1635	Fri	Polish intel.	BPSK-63	(AB)
P03a	9902	22-3	1640	Fri	Polish intel.	BPSK-63	(AB)
P03a	13873	23-3	1140	Sat	Polish intel.	BPSK-63	(AB)
P03a	13873	23-3	1145	Sat	Polish intel.	BPSK-63	(AB)
P03a	10728	23-3	1225	Sat	Polish intel.	BPSK-63	(AB)
P03a	10728	23-3	1230	Sat	Polish intel.	BPSK-63	(AB)
P03a	5779	23-3	1435	Sat	Polish intel.	BPSK-63	(AB)
P03a	5779	23-3	1440	Sat	Polish intel.	BPSK-63	(AB)
P03a	14865	23-3	1600	Sat	Polish intel.	BPSK-63	(AB)
P03a	14865	23-3	1605	Sat	Polish intel.	BPSK-63	(AB/BW3-HOL)
P03a	10302	24-3	1500	Sun	Polish intel.	BPSK-63	(AB)
P03a	10302	24-3	1500	Sun	Polish intel.	BPSK-63	(AB)
P03a	10302	24-3	1505	Sun	Polish intel.	BPSK-63	(AB)
P03a	10302	24-3	1505	Sun	Polish intel.	BPSK-63	(AB)
P03a	5946	24-3	1730	Sun	Polish intel.	BPSK-63	(AB)
P03a	5946	24-3	1735	Sun	Polish intel.	BPSK-63	(AB)
P03a	13873	25-3	1410	Mon	Polish intel.	BPSK-63	(AB)
P03a	13873	25-3	1415	Mon	Polish intel.	BPSK-63	(AB)
P03a	10728	27-3	1225	Wed	Polish intel.	BPSK-63	(AB)
P03a	10728	27-3	1230	Wed	Polish intel.	BPSK-63	(AB)

P03a	14865	27-3	1600	Wed	Polish intel.	BPSK-63	(AB/BW3)
P03a	14865	27-3	1605	Wed	Polish intel.	BPSK-63	(AB)
P03a	15800	28-3	1415	Thu	Polish intel.	BPSK-63	(AB)
P03a	15800	28-3	1420	Thu	Polish intel.	BPSK-63	(AB)
P03a	13575	29-3	1440	Fri	Polish intel.	BPSK-63	(AB)
P03a	13575	29-3	1445	Fri	Polish intel.	BPSK-63	(AB)
P03a	10302	29-3	1500	Fri	Polish intel.	BPSK-63	(AB)
P03a	10302	29-3	1505	Fri	Polish intel.	BPSK-63	(AB)
P03a	9902	29-3	1635	Fri	Polish intel.	BPSK-63	(AB)
P03a	9902	29-3	1640	Fri	Polish intel.	BPSK-63	(AB)
P03a	13873	30-3	1140	Sat	Polish intel.	BPSK-63	(AB)
P03a	13873	30-3	1145	Sat	Polish intel.	BPSK-63	(AB)
P03a	5779	30-3	1435	Sat	Polish intel.	BPSK-63	(AB)
P03a	5779	30-3	1440	Sat	Polish intel.	BPSK-63	(AB)
P03a	14865	30-3	1600	Sat	Polish intel.	BPSK-63	(AB)
P03a	14865	30-3	1605	Sat	Polish intel.	BPSK-63	(AB)
P03a	13873	31-3	1410	Sun	Polish intel.	BPSK-63	(AB)
P03a	13873	31-3	1415	Sun	Polish intel.	BPSK-63	(AB)
P03a	10302	31-3	1500	Sun	Polish intel.	BPSK-63	(AB)
P03a	10302	31-3	1505	Sun	Polish intel.	BPSK-63	(AB)
P03a	5946	31-3	1730	Sun	Polish intel.	BPSK-63	(AB)
P03a	5946	31-3	1735	Sun	Polish intel.	BPSK-63	(AB)
P03b	11107	6-3	1120	Wed	Polish intel.	QPSK-63	(AB)
P03b	11107	6-3	1125	Wed	Polish intel.	QPSK-63	(AB)
P03b	11107	10-3	1120	Sun	Polish intel.	QPSK-63	(AB)
P03b	11107	10-3	1125	Sun	Polish intel.	QPSK-63	(AB)
P03b	11107	13-3	1120	Wed	Polish intel.	QPSK-63	(AB)
P03b	11107	13-3	1125	Wed	Polish intel.	QPSK-63	(AB)
P03b	11107	20-3	1120	Wed	Polish intel.	QPSK-63	(AB)
P03b	11107	20-3	1125	Wed	Polish intel.	QPSK-63	(AB)
P03b	11107	27-3	1120	Wed	Polish intel.	QPSK-63	(AB)
P03b	11107	27-3	1125	Wed	Polish intel.	QPSK-63	(AB)
P03b	11107	31-3	1120	Sun	Polish intel.	QPSK-63	(AB)
P03b	11107	31-3	1125	Sun	Polish intel.	QPSK-63	(AB)
Q26	4364	8-3	1131	Fri	Messages //8073	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	8-3	1131	Fri	Messages //4364	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4243	8-3	1142	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4364	11-3	1130	Mon	Messages //8073	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	11-3	1130	Mon	Messages //4354	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4243	11-3	1142	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL)

Q26	4243	11-3	1142	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4364	12-3	0002	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4364	12-3	1132	Tue	Messages //8073	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	12-3	1132	Tue	Messages //4364	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4243	17-3	1144	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	22-3	1135	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4243	22-3	1147	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4364	23-3	1132	Sat	Messages //8073	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	23-3	1132	Sat	Messages //4364	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4243	23-3	1146	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4243	25-3	1148	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4243	26-3	1142	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL)
Q26	4364	29-3	1145	Fri	XSV85: messages //8073	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	29-3	1145	Fri	XSV85: messages //4364	4+4 QPSK 75/3000 LSB	(JPL)
RMv	5310	12-3	0952	Tue	Ya Patron-79 primite komandu ZTP ZDB ZDN ShchYT4	USB	(Gwr)
S06	8191	1-3	2000	Fri	627 627 627 00000	USB	(HFD)
S06	5943	1-3	2100	Fri	627 627 627 00000	USB	(HFD)
S06	15721	5-3	0400	Tue	480 672 55 19459 50992 59387 ... 40753 60617 88424 672 55 00000	USB	(kalv-J)
S06	15721	7-3	0400	Thu	480 297 55 96840 68579 68737 ... 32148 89540 94391 297 55 00000	USB	(kalv-J/HFD-KOR)
S06	15721	11-3	0400	Mon	480 613 50 78742 58496 21666 ... 93780 60975 05741 613 50 00000	USB	(kalv-J)
S06	15721	12-3	0400	Tue	480 529 61 43454 22816 85217 ... 54593 48133 75486 529 61 00000	USB	(kalv-J)
S06	15721	13-3	0400	Wed	480 763 55 60014 64427 45979 ... 38615 49216 40483 763 55 00000	USB	(kalv-J)
S06	9082	13-3	0830	Wed	464 921 5 34242 83255 55945 60494 93543 921 5 00000	USB	(HFD)
S06	9952	13-3	0840	Wed	464 921 5 34242 83255 55945 60494 93543 921 5 00000	USB	(HFD)
S06	15721	14-3	0400	Thu	480 480 480 00000 480 480 480 00000 (R4) 591 60 91576 83002 80997 ... 04150 04049 91209 591 60 00000	USB	(kalv-J)
S06	16268	14-3	0930	Thu	842 936 44 43848 ...	USB	(HFD)
S06	8191	15-3	2000	Fri	627 627 627 00000	USB	(AB/MPJ)
S06	5943	15-3	2100	Fri	627 627 627 00000	USB	(AB)
S06	10755	16-3	1300	Sat	480 795 42 49563 01154 35760 ... 31812 31821 27269 795 42 00000	USB	(AB)
S06	15721	19-3	0400	Tue	480 752 58 82202 91990 95235 ... 28663 40700 01061 752 58 00000	USB	(kalv-KOR)
S06	15721	22-3	0400	Fri	480 963 57 72996 89976 54470 ... 87749 46175 80297 963 57 000000	USB	(kalv-KOR)
S06	15721	26-3	0400	Tue	480 269 55 07601 56098 77266 ... 93580 56800 46023 269 55 00000	USB	(kalv-KOR)
S06s	5744	1-3	0900	Fri	624 819 5 32842 30003 34053 30738 56864 819 5 00000	USB	(AB)
S06s	6524	1-3	0910	Fri	624 819 5 32842 30003 34053 30738 56864 819 5 00000	USB	(AB)
S06s	12140	1-3	0930	Fri	516 243 7 37218 32079 40064 40372 36343 33365 97541 243 7 00000	USB	(AB)
S06s	13515	1-3	0940	Fri	516 243 7 37218 32079 40064 40372 36343 33365 97541 243 7 00000	USB	(AB)
S06s	10350	2-3	0800	Sat	254 908 6 65906 66610 20336 17301 88554 82045 908 6 00000	USB	(AB/HFD)
S06s	8520	2-3	0810	Sat	254 908 6 65906 66610 20336 17301 88554 82045 908 6 00000	USB	(AB/HFD)
S06s	22185	4-3	0630	Mon	524 893 6 02039 43966 49821 39056 31348 99724 893 6 00000	USB	(AB-AUT)

S06s	20050	4-3	0640	Mon	524 893 6 02039 43966 49821 39056 31348 99724 893 6 00000	USB	(AB-AUT)
S06s	9220	4-3	0830	Mon	371 429 5 33699 39998 30667 35947 83964 429 5 00000	USB	(AB)
S06s	8270	4-3	0840	Mon	371 429 5 33699 39998 30667 35947 83964 429 5 00000	USB	(AB)
S06s	14580	4-3	0900	Mon	872 430 5 40774 45383 48882 31151 32860 430 5 00000	USB	(AB-AUT)
S06s	13165	4-3	0910	Mon	872 430 5 40774 45383 48882 31151 32860 430 5 00000	USB	(AB-AUT)
S06s	11460	4-3	1210	Mon	831 476 5 43334 30147 30494 43014 81051 476 5 00000	USB	(MPJ-UKR)
S06s	15855	5-3	0600	Tue	438 261 5 46544 34612 43306 64498 33860 261 5 00000	USB	(AB-AUT)
S06s	5760	5-3	0700	Tue	374 219 5 44475 30322 36034 45445 44008 219 5 00000	USB	(AB)
S06s	6930	5-3	0715	Tue	374 219 5 44475 30322 36034 45445 44008 219 5 00000	USB	(AB)
S06s	7425	5-3	0730	Tue	427 560 8 30233 36973 38084 38836 32441 48658 48114 54054 560 8 00000	USB	(AB)
S06s	11560	5-3	0740	Tue	427 560 8 30233 36973 38084 38836 32441 48658 48114 54054 560 8 00000	USB	(AB)
S06s	11635	5-3	0800	Tue	352 416 7 43753 32543 40936 36892 45221 43796 32860 416 7 00000	USB	(AB)
S06s	10420	5-3	0810	Tue	352 416 7 43753 32543 40936 36892 45221 43796 32860 416 7 00000	USB	(AB)
S06s	6410	5-3	1000	Tue	893 456 7 37218 32079 40063 40372 36343 33365 97541 456 7 00000	USB	(AB-POL)
S06s	7340	5-3	1010	Tue	893 456 7 37218 32079 40063 40372 36343 33365 97541 456 7 00000	USB	(AB)
S06s	6190	5-3	1100	Tue	754 816 9 30147 30797 43014 81051 46544 34612 43306 34498 33860 816 9 00000	USB	(AB-POL/MPJ-AUT/HFD)
S06s	7230	5-3	1110	Tue	754 816 9 30147 30797 43014 81051 46544 34612 43306 34498 33860 816 9 00000	USB	(AB/MPJ-AUT)
S06s	6464	5-3	1500	Tue	537 408 6 33760 46632 30233 38084 38836 36973 408 5 00000	USB	(AB/MPJ/HFD)
S06s	7242	5-3	1510	Tue	537 408 6 33760 46632 30233 38084 38836 36973 408 5 00000	USB	(AB/MPJ/BW3-G/HFD)
S06s	8630	6-3	0820	Wed	471 980 5 28548 59014 32424 75078 97520 980 5 00000	USB	(AB)
S06s	9082	6-3	0830	Wed	464 921 5 34242 83255 55945 60494 93543 921 5 00000	USB	(AB)
S06s	9255	6-3	0830	Wed	471 980 5 28548 59014 32424 75078 97520 980 5 00000	USB	(AB)
S06s	11530	6-3	0830	Wed	745 830 6 46062 68672 97478 39685 30485 99632 830 6 00000	USB	(AB)
S06s	9952	6-3	0840	Wed	464 921 5 34242 83255 55945 60494 93543 921 5 00000 (S06s 745 schedule on 12140 kHz in the background)	USB	(AB)
S06s	12140	6-3	0840	Wed	745 830 6 46062 68672 97478 39685 30485 99632 830 6 00000	USB	(AB)
S06s	13365	6-3	1000	Wed	729 805 6 52401 63919 92699 14600 74248 48754 805 6 00000	USB	(AB)
S06s	14505	6-3	1010	Wed	729 805 6 52401 63919 92699 14600 74248 48754 805 6 00000	USB	(AB)
S06s	9081	7-3	0930	Thu	314 967 5 30596 22978 33133 57605 33882 967 5 00000	USB	(AB/HFD)
S06s	10514	7-3	0940	Thu	314 967 5 30596 22978 33133 57605 33882 967 5 00000	USB	(AB/HFD)
S06s	12415	7-3	1200	Thu	425 907 6 16015 29043 16098 02066 04063 20531 907 6 00000	USB	(AB/HFD)
S06s	5744	8-3	0900	Fri	624 819 5 32842 30003 34053 30738 56864 819 5 00000	USB	(AB)
S06s	5744	8-3	0900	Fri	624-819/5=32482	USB	(HFD)
S06s	6524	8-3	0910	Fri	624 819 5 32842 30003 34053 30738 56864 819 5 00000	USB	(AB/HFD)
S06s	12140	8-3	0930	Fri	516 243 7 37218 32079 40064 40372 36343 33365 97541 243 7 00000	USB	(AB/HFD)
S06s	13515	8-3	0940	Fri	516 243 7 37218 32079 40064 40372 36343 33365 97541 243 7 00000	USB	(AB/HFD)
S06s	22185	11-3	0630	Mon	524 893 6 02039 43966 49821 39056 31348 99724 893 6 00000	USB	(AB-AUT/HFD-UKR)
S06s	20050	11-3	0640	Mon	524 893 6 02039 43966 49821 39056 31348 99724 893 6 00000	USB	(AB-AUT/HFD-UKR)
S06s	20050	11-3	0640	Mon	524 via KiwiSDR UKR	USB	(HFD-UKR)
S06s	9220	11-3	0830	Mon	371 429 5 33699 39998 30667 35947 83964 429 5 00000	USB	(AB/HFD)

S06s	8270	11-3	0840	Mon	371 429 5 33699 39998 30667 35947 83964 429 5 00000	USB	(AB/HFD)
S06s	14580	11-3	0900	Mon	872 430 5 40774 45383 48882 31151 32860 430 5 00000	USB	(AB-I)
S06s	13165	11-3	0910	Mon	872 430 5 40774 45383 48882 31151 32860 430 5 00000	USB	(AB)
S06s	9145	11-3	1200	Mon	831 476 5 43334 30147 30494 43014 81051 476 5 00000	AM	(AB/MPJ/HFD)
S06s	11460	11-3	1210	Mon	831 476 5 43334 30147 30494 43014 81051 476 5 00000	AM	(AB/MPJ/HFD)
S06s	5760	12-3	0700	Tue	374 219 5 44475 30322 36034 45445 44008 219 5 00000	USB	(AB/HFD)
S06s	6930	12-3	0715	Tue	374 219 5 44475 30322 36034 45445 44008 219 5 00000	USB	(AB/CS/HFD)
S06s	7425	12-3	0730	Tue	427 560 8 30233 36973 38084 38836 32441 48658 48114 54054 560 8 00000	USB	(AB/HFD)
S06s	11560	12-3	0740	Tue	427 560 8 30233 36973 38084 38836 32441 48658 48114 54054 560 8 00000	USB	(AB/HFD)
S06s	11635	12-3	0800	Tue	352 416 7 43753 32543 40936 36892 45221 43796 32860 416 7 00000 mixing with HM01	USB	(AB/HFD)
S06s	10420	12-3	0810	Tue	352 416 7 43753 32543 40936 36892 45221 43796 32860 416 7 00000	USB	(AB/HFD)
S06s	6410	12-3	1000	Tue	893 456 7 37218 32079 40063 40372 36343 33365 97541 456 7 00000	USB	(AB-POL/HFD)
S06s	7340	12-3	1010	Tue	893 456 7 37218 32079 40063 40372 36343 33365 97541 456 7 00000	USB	(AB/HFD)
S06s	6190	12-3	1100	Tue	754 816 9 30147 30797 43014 81051 46544 34612 43306 34498 33860 816 9 00000	USB	(AB-POL)
S06s	7230	12-3	1110	Tue	754 816 9 30147 30797 43014 81051 46544 34612 43306 34498 33860 816 9 00000	USB	(AB/MPJ)
S06s	6464	12-3	1500	Tue	537 408 6 33760 46632 30233 38084 38836 36973 408 5 00000	USB	(AB-AUT/MPJ)
S06s	7242	12-3	1510	Tue	537 408 6 33760 46632 30233 38084 38836 36973 408 5 00000	USB	(AB/BW3-HOL/MPJ)
S06s	8630	13-3	0820	Wed	471 980 5 28548 59014 32424 75078 97520 1,5min pause 980 5 00000	USB	(AB)
S06s	9082	13-3	0830	Wed	464 921 5 34242 83255 55945 60494 93543 921 5 00000	USB	(AB)
S06s	9255	13-3	0830	Wed	471 980 5 28548 59014 32424 75078 97520 980 5 00000	USB	(AB)
S06s	11530	13-3	0830	Wed	745 830 6 46062 68672 97478 39685 30485 99632 830 6 00000	USB	(AB)
S06s	9952	13-3	0840	Wed	464 921 5 34242 83255 55945 60494 93543 921 5 00000	USB	(AB/HFD)
S06s	12140	13-3	0840	Wed	745 830 6 46062 68672 97478 39685 30485 99632 830 6 00000	USB	(AB/HFD)
S06s	13365	13-3	1000	Wed	729 805 6 52401 63919 92699 14600 74248 48754 805 6 00000	USB	(AB/HFD)
S06s	14505	13-3	1010	Wed	729 805 6 52401 63919 92699 14600 74248 48754 805 6 00000	USB	(AB/HFD)
S06s	9081	14-3	0930	Thu	314 967 5 30596 22978 33133 57605 33882 967 5 00000	USB	(AB/ES-HOL)
S06s	10514	14-3	0940	Thu	314 967 5 30596 22978 33133 57605 33882 967 5 00000	USB	(AB/ES-HOL)
S06s	12415	14-3	1200	Thu	425 907 6 16015 29043 16098 02066 04063 20531 907 6 00000	USB	(AB/MPJ)
S06s	14212	14-3	1210	Thu	425 907 6 16015 29043 16098 02066 04063 20531 907 6 00000	USB	(AB/MPJ)
S06s	5744	15-3	0900	Fri	624 901 5 07931 98755 84638 35752 64655 901 5 00000	USB	(AB)
S06s	6524	15-3	0910	Fri	624 901 5 07931 98755 84638 35752 64655 901 5 00000	USB	(AB)
S06s	12140	15-3	0930	Fri	516 407 8 12443 38625 89531 52814 95941 64155 50525 02465 407 8 00000	USB	(AB)
S06s	13515	15-3	0940	Fri	516 407 8 12443 38625 89531 52814 95941 64155 50525 02465 407 8 00000	USB	(AB)
S06s	20050	18-3	0640	Mon	524 986 7 37867 86001 40275 44333 31502 33886 33347 986 7 00000	USB	(AB-AUT)
S06s	9220	18-3	0830	Mon	371 920 5 28548 58014 32424 75078 97520 920 5 00000	USB	(AB)
S06s	8270	18-3	0840	Mon	371 920 5 28548 58014 32424 75078 97520 920 5 00000	USB	(AB)
S06s	14580	18-3	0900	Mon	872 940 5 34242 83255 55935 60494 93543 940 5 00000	USB	(AB/HFD)
S06s	13165	18-3	0910	Mon	872 940 5 34242 83255 55935 60494 93543 940 5 00000	USB	(AB/HFD)
S06s	9145	18-3	1200	Mon	831 960 5 88620 58069 61732 74537 57440 960 5 00000	AM	(AB/MPJ)
S06s	11460	18-3	1210	Mon	831 960 5 88620 58069 61732 74537 57440 960 5 00000	AM	(AB/MPJ)

S06s	15855	19-3	0600	Tue	438 501 6 46062 68672 97478 39685 30485 96632 501 6 00000	USB	(AB-FIN)
S06s	16485	19-3	0610	Tue	438 501 6 46062 68672 97478 39685 30485 96632 501 6 00000	USB	(AB-FIN)
S06s	5760	19-3	0700	Tue	374 598 6 52401 63919 92699 14600 74248 48754 598 6 00000	USB	(AB)
S06s	6930	19-3	0715	Tue	374 598 6 52401 63919 92699 14600 74248 48754 598 6 00000	USB	(AB)
S06s	7425	19-3	0730	Tue	427 958 6 99630 46280 33187 33334 39352 39342 958 6 00000	USB	(AB)
S06s	11560	19-3	0740	Tue	427 958 6 99630 46280 33187 33334 39352 39342 958 6 00000	USB	(AB)
S06s	11635	19-3	0800	Tue	352 914 6 02883 49385 41770 84354 32977 68679 914 6 00000	USB	(AB)
S06s	10420	19-3	0810	Tue	352 914 6 02883 49385 41770 84354 32977 68679 914 6 00000	USB	(AB)
S06s	6410	19-3	1000	Tue	893 264 5 95639 86212 43708 32347 41326 264 5 00000	USB	(AB)
S06s	7340	19-3	1010	Tue	893 264 5 95639 86212 43708 32347 41326 264 5 00000	USB	(AB)
S06s	6190	19-3	1100	Tue	754 31298 56800 62795 74228 97511 82110 213 6 00000	USB	(AB-POL/MPJ-I)
S06s	7230	19-3	1110	Tue	754 31298 56800 62795 74228 97511 82110 213 6 00000	USB	(AB/MPJ-I)
S06s	6464	19-3	1500	Tue	537 840 6 38611 36998 40613 89786 32235 40275 840 6 00000	USB	(AB/MPJ)
S06s	7242	19-3	1510	Tue	537 840 6 38611 36998 40613 89786 32235 40275 840 6 00000	USB	(AB/MPJ)
S06s	8630	20-3	0820	Wed	471 985 6 33640 38293 43330 32403 88443 36773 985 6 00000	USB	(AB)
S06s	9082	20-3	0830	Wed	464 975 8 41385 36362 43010 33683 32463 30310 34406 42143 975 8 00000	USB	(AB)
S06s	9255	20-3	0830	Wed	471 985 6 33640 38293 43330 32403 88443 36773 985 6 00000	USB	(AB)
S06s	11530	20-3	0830	Wed	745 986 10 38549 86184 47321 89503 37671 30093 33625 44833 41607 36112 986 10 00000	USB	(AB)
S06s	9952	20-3	0840	Wed	464 975 8 41385 36362 43010 33683 32463 30310 34406 42143 975 8 00000	USB	(AB)
S06s	12140	20-3	0842	Wed	745 986 10 38549 86184 47321 89503 37671 30093 33625 44833 41607 36112 986 10 00000 Late start	USB	(AB)
S06s	13365	20-3	1000	Wed	729 485 6 31467 33351 43533 35211 35211 33212 485 6 00000	USB	(AB)
S06s	14505	20-3	1010	Wed	729 485 6 31467 33351 43533 35211 35211 33212 485 6 00000	USB	(AB)
S06s	12415	21-3	1200	Thu	425 879 6 07931 98755 84638 45752 64644 48646 879 6 00000	USB	(MPJ)
S06s	14212	21-3	1210	Thu	425 879 6 07931 98755 84638 45752 64644 48646 879 6 00000	USB	(MPJ)
S06s	5744	22-3	0900	Fri	624 901 5 07931 98755 84638 35752 64655 901 5 00000	USB	(AB)
S06s	6524	22-3	0910	Fri	624 901 5 07931 98755 84638 35752 64655 901 5 00000	USB	(AB)
S06s	12140	22-3	0930	Fri	516 407 8 12443 38625 89531 52814 95941 64155 50525 02465 407 8 00000	USB	(AB)
S06s	13515	22-3	0940	Fri	516 407 8 12443 38625 89531 52814 95941 64155 50525 02465 407 8 00000	USB	(AB)
S06s	9220	25-3	0830	Mon	371 920 5 28548 58014 32424 75078 97520 920 5 00000	USB	(AB)
S06s	8270	25-3	0840	Mon	371 920 5 28548 58014 32424 75078 97520 920 5 00000	USB	(AB)
S06s	14580	25-3	0900	Mon	872 940 5 34242 83255 55935 60494 93543 940 5 00000	USB	(AB-GRC)
S06s	13165	25-3	0910	Mon	872 940 5 34242 83255 55935 60494 93543 940 5 00000	USB	(AB-GRC)
S06s	9145	25-3	1200	Mon	831 960 5 88620 58069 61732 74537 57440 960 5 00000	AM	(AB/MPJ)
S06s	11460	25-3	1210	Mon	831 960 5 88620 58069 61732 74537 57440 960 5 00000	AM	(AB/MPJ)
S06s	6410	26-3	1000	Tue	893 264 5 95639 86212 43708 32347 41326 264 5 00000	USB	(AB)
S06s	7340	26-3	1010	Tue	893 264 5 95639 86212 43708 32347 41326 264 5 00000	USB	(AB)
S06s	6190	26-3	1100	Tue	754 31298 56800 62795 74228 97511 82110 213 6 00000	USB	(AB-POL/MPJ)
S06s	7230	26-3	1110	Tue	754 31298 56800 62795 74228 97511 82110 213 6 00000	USB	(AB/MPJ)

S06s	6464	26-3	1500	Tue	537 840 6 38611 36998 40613 89786 32235 40275 840 6 00000	USB	(AB/MPJ)
S06s	7242	26-3	1510	Tue	537 840 6 38611 36998 40613 89786 32235 40275 840 6 00000	USB	(AB/MPJ)
S06s	8630	27-3	0820	Wed	471 985 6 33640 38293 43330 32403 88443 36773 985 6 00000	USB	(AB/HFD)
S06s	9082	27-3	0830	Wed	464 975 8 41385 36362 43010 33683 32463 30310 34406 42143 975 8 00000	USB	(AB)
S06s	9255	27-3	0830	Wed	471 985 6 33640 38293 43330 32403 88443 36773 985 6 00000	USB	(AB/HFD)
S06s	11530	27-3	0830	Wed	745 986 10 38549 86184 47321 89503 37671 30093 33625 44833 41607 36112 986 10 00000	USB	(AB)
S06s	9952	27-3	0840	Wed	464 975 8 41385 36362 43010 33683 32463 30310 34406 42143 975 8 00000	USB	(AB)
S06s	12140	27-3	0842	Wed	745 986 10 38549 86184 47321 89503 37671 30093 33625 44833 41607 36112 986 10 00000	USB	(AB)
S06s	13365	27-3	1000	Wed	729 485 6 31467 33351 43533 35211 35211 33212 485 6 00000	USB	(AB)
S06s	14505	27-3	1010	Wed	729 485 6 31467 33351 43533 35211 35211 33212 485 6 00000	USB	(AB)
S06s	9081	28-3	0930	Thu	314 980 5 55570 95638 45555 54456 84354 980 5 00000	USB	(AB)
S06s	10514	28-3	0940	Thu	314 980 5 55570 95638 45555 54456 84354 980 5 00000	USB	(AB)
S06s	12415	28-3	1200	Thu	425 879 6 07931 98755 84638 45752 64644 48646 879 6 00000	USB	(AB/MPJ)
S06s	14212	28-3	1210	Thu	425 879 6 07931 98755 84638 45752 64644 48646 879 6 00000	USB	(AB/MPJ)
S06s	5744	29-3	0900	Fri	624 624 624 00000	USB	(AB)
S06s	6524	29-3	0910	Fri	624 624 624 00000	USB	(AB)
S06s	12140	29-3	0930	Fri	516 516 516 00000	USB	(AB)
S06s	13515	29-3	0940	Fri	516 516 516 00000	USB	(AB)
S11a	7469	1-3	1020	Fri	425/00	USB	(AB)
S11a	10800	2-3	1540	Sat	565/00	USB	(AB/MPJ)
S11a	10213	2-3	1850	Sat	285/00	USB	(AB/MPJ/HFD)
S11a	11493	4-3	1015	Mon	Active but unreadable	USB	(AB)
S11a	5358	5-3	0455	Tue	324/00	USB	(AB)
S11a	7469	5-3	1020	Tue	429/38 Vnimanaye 25582 42190 93301 ... 49265 06940 01141 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	10800	6-3	1540	Wed	563/38 Vnimanaye 54017 82373 80376 ... 31414 51601 58099 Vnimanaye (message repeated) Konets	USB	(AB/MPJ)
S11a	10213	6-3	1850	Wed	Null message. Very distorted sound	USB	(AB-POL)
S11a	11493	7-3	1015	Thu	477/00	USB	(HFD)
S11a	7469	8-3	1020	Fri	429/38 Vnimanaye 25582 42190 93301 ... 49265 06940 01141 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	10800	9-3	1540	Sat	563/38 Vnimanaye 54017 82373 80376 ... 31414 51601 58099 Vnimanaye (message repeated) Konets	USB	(AB-POL/MPJ/BW3)
S11a	10213	9-3	1850	Sat	281/00	USB	(AB)
S11a	11493	11-3	1015	Mon	477/00	USB	(AB)
S11a	5358	12-3	0455	Tue	326/37=67627	USB	(HFD)
S11a	7469	12-3	1020	Tue	421/00	USB	(AB/HFD)
S11a	10800	13-3	1540	Wed	563/00	USB	(AB/HFD)

S11a	10213	13-3	1850	Wed	280/31 Vnimanaye 91822 39840 76549 ... 27305 53527 78993 Vnimanaye (message repeated) Konets	USB	(AB/MPJ)
S11a	11493	14-3	1015	Thu	476/00	USB	(AB-POL)
S11a	5358	15-3	0455	Fri	326/39 Vnimanaye 67927 02388 09643 18764 ... 22593 57614 28533 Vnimanaye (message repeated) Konets	USB	(AB-POL)
S11a	7469	15-3	1020	Fri	424/00	USB	(AB)
S11a	6433	15-3	1100	Fri	370/00	USB	(AB/HFD)
S11a	10800	16-3	1540	Sat	563/00	USB	(AB/MPJ)
S11a	10213	16-3	1850	Sat	280/31 Vnimanaye 91822 39840 76549 ... 27305 53527 78993 Konets	USB	(MPJ)
S11a	11493	18-3	1015	Mon	477/00	USB	(AB)
S11a	5371	19-3	0455	Tue	325/31 Vnimanaye 89066 03027 73871 ... 21861 11810 98827 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	7469	19-3	1020	Tue	424/00	USB	(AB)
S11a	6433	20-3	1100	Wed	378/00	USB	(AB/MPJ)
S11a	10800	20-3	1540	Wed	567/00	USB	(AB/GHn/MPJ)
S11a	10213	20-3	1850	Wed	282/00	USB	(AB/MPJ)
S11a	5371	22-3	0455	Fri	325/31 Vnimanaye 89066 03027 73871 ... 21861 11810 98827 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	7469	22-3	1020	Fri	425/00	USB	(AB)
S11a	6433	22-3	1100	Fri	379/00	USB	(AB)
S11a	10800	23-3	1540	Sat	565/00	USB	(AB/GHn/MPJ)
S11a	10213	23-3	1850	Sat	280/00	USB	(AB/MPJ)
S11a	11493	25-3	1015	Mon	477/36 Vnimanaye 13510 66027 59499 ... 25969 80050 91763 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	5371	26-3	0455	Tue	328/00	USB	(AB)
S11a	7469	26-3	1020	Tue	421/00	USB	(AB)
S11a	6433	27-3	1100	Wed	378/00	USB	(MPJ)
S11a	10800	27-3	1540	Wed	569/00	USB	(AB)
S11a	10213	27-3	1850	Wed	285/00	USB	(AB/MPJ)
S11a	11493	28-3	1015	Thu	477/36 Vnimanaye 13510 66027 59499 ... 25969 80050 91763 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	5371	29-3	0455	Fri	328/00	USB	(AB)
S11a	7469	29-3	1020	Fri	425/00	USB	(AB)
S11a	6433	29-3	1100	Fri	371/00	USB	(AB/MPJ)
S11a	10800	30-3	1540	Sat	564/00	USB	(AB/MPJ)
S11a	10213	30-3	1850	Sat	280/00	USB	(AB/MPJ)
S28	4625	1-3	1413	Fri	ANVF 97625 KYeJFOSYeG 8939 6116	USB	(GWr)
S28	4625	1-3	1420	Fri	ANVF 87871 LYeKOVYa 1614 1792	USB	(GWr)
S28	4625	1-3	1425	Fri	ANVF 65634 GYeNOLOM 1563 7087	USB	(GWr)
S28	4625	1-3	1427	Fri	ANVF 65033 KVASOVAR 7787 0696	USB	(GWr)

S28	4625	1-3	1428	Fri	ANVF 91031 GLIFOKOKK 0328 4743	USB	(GWr)
S28	4625	1-3	1432	Fri	ANVF 92443 BAKSOVDOH 2448 1565	USB	(GWr)
S28	4625	1-3	1434	Fri	ANVF 13734 DOL'NIJ 7639 7948	USB	(GWr)
S28	4625	1-3	1436	Fri	ANVF 47744 KITYeNOK 3357 0082	USB	(GWr)
S28	4625	1-3	1438	Fri	ANVF 64801 ARAPOHAM 2211 1743	USB	(GWr)
S28	4625	1-3	1439	Fri	ANVF 76613 VATNIK 1141 5996	USB	(GWr)
S28	4625	1-3	1446	Fri	ANVF 94514 BALOZhNYeC 4118 0141 - 0141 read as 141	USB	(GWr)
S28	4625	1-3	1448	Fri	ANVF 29333 VOSKOFORT 3990 0013	USB	(GWr)
S28	4625	1-3	1450	Fri	ANVF 04358 ZhATKA 8124 7730	USB	(GWr)
S28	4625	1-3	1518	Fri	ANVF 66442 LYeNCh 4399 9344	USB	(GWr)
S28	4625	1-3	1521	Fri	ANVF 65260 ANOKOMOR' 9017 5207	USB	(GWr)
S28	4625	2-3	1846	Sat	Buzzer marker	USB	(AB)
S28	4625	16-3	1535	Sat	Buzzer marker	USB	(AB)
S30	3756	2-3	1846	Sat	Pip marker	USB	(AB)
S30	5448	8-3	1129	Fri	8S1Shch 77057 YePITIM'Ya 2764 6052	USB	(Gwr)
S30	5448	8-3	1130	Fri	8S1Shch 13050 DEROBLYuM 0401 5682	USB	(Gwr)
S30	5448	12-3	1203	Tue	8S1Shch 50468 V'YuNOZEV 0883 1696	USB	(Gwr)
S30	5448	12-3	1206	Tue	8S1Shch 23564 61422 KRUPOF AJL 5665 4096	USB	(Gwr)
S30	5448	16-3	1529	Sat	Pip marker	USB	(AB)
S30	5448	18-3	1132	Mon	8S1Shch 87572 BOROVOJ 1248 7970	USB	(Gwr)
S30	5448	18-3	1331	Mon	8S1Shch 68619 KONOKRAD 8176 5112	USB	(Gwr)
S30	3756	18-3	1603	Mon	Dlya: 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GZ KZI' TShchShchS	USB	(Gwr)
S30	5448	21-3	0940	Thu	8S1Shch 06692 KUSODAR 1979 2572	USB	(Gwr)
S30	5448	21-3	1003	Thu	8S1Shch 60928 KOMOMUAR 4995 1615	USB	(Gwr)
S30	5448	21-3	1200	Thu	27Shch' N1DU 53OB 78MV DYeAY JH'J 12CI 79AJ ShchT3O CIHS	USB	(Gwr)
S30	5448	21-3	1253	Thu	i.p. -YeLICA 0824 1259 - partial capture	USB	(Gwr)
S30	5448	21-3	1352	Thu	8S1Shch 70964 LUCKOM AIS 1643 4745	USB	(Gwr)
S32	3828	2-3	1846	Sat	Squeaky Wheel 3-tones marker	USB	(AB)
S32	5473	8-3	1134	Fri	Al'fa-45 41915 LYeVYJ 2362 2556	USB	(Gwr)
S32	5473	12-3	1210	Tue	Al'fa-45 60734 DZhUTOKRYaZh 5202 9705	USB	(Gwr)
S32	5473	16-3	1532	Sat	Squeaky Wheel marker	USB	(AB)
S32	5473	18-3	1136	Mon	Al'fa-45 99114 MORYaCKIJ 1171 0201	USB	(Gwr)
S32	5473	18-3	1334	Mon	Al'fa-45 17168 LYeZhAN'Ye 1145 9874	USB	(Gwr)
S32	5473	21-3	0942	Thu	Al'fa-45 45697 BYeZRABOTNYJ 1200 4412	USB	(Gwr)
S32	5473	21-3	1010	Thu	Al'fa-45 12211 VKUSOHLAM 3516 1844	USB	(Gwr)
S32	5473	21-3	1255	Thu	Al'fa-45 15962 NIMBOVAR 1146 7156	USB	(Gwr)
S32	5473	21-3	1356	Thu	Al'fa-45 91818 IRAKOLAOS 9989 3800	USB	(Gwr)
UM03	4553	6-3	1240	Wed	i.p. LACRU PEGWY QFHLU JDSMB NEWFO ... AR ZNN W .. OK	CW	(JPL-HK)
UM03	4224	6-3	1243	Wed	i.p. ZRILA UKDBD SVECC ... AR W VA (Other station also on this frequency)	CW	(JPL-HK)
UM10	3718	2-3	2115	Sat	10-minutes net: 7CJK i.p. //3210 kHz	CW	(JPL-Sib)

UM10	3326	2-3	2128	Sat	10-minutes net: U34D i.p.	CW	(JPL-Sib)
UM10	3326	3-3	1854	Sun	10-minutes net: U34D i.p.	CW	(JPL-KOR)
UM10	3210	6-3	1248	Wed	10-minutes net i.p.: 7CJK //3718 kHz	CW	(JPL-J)
UM10	3718	6-3	1248	Wed	10-minutes net i.p.: 7CJK //3210 kHz	CW	(JPL-J)
UM10	3326	6-3	1559	Wed	10-minutes net i.p.: U34D	CW	(JPL-CHN)
UM10	3210	6-3	1615	Wed	10-minutes net i.p.: 7CJK //3718 kHz	CW	(JPL-J)
UM10	3718	6-3	1615	Wed	10-minutes net i.p.: 7CJK //3210 kHz	CW	(JPL-J)
UM10	3210	6-3	1943	Wed	10-minutes net i.p.: 7CJK //3718 kHz	CW	(JPL-J)
UM10	3718	6-3	1943	Wed	10-minutes net i.p.: 7CJK //3210 kHz	CW	(JPL-J)
UM10	3326	6-3	1950	Wed	10-minutes net i.p.: U34D	CW	(JPL-CHN)
UM10	3718	10-3	1440	Sun	10-minutes net: 7CJK	CW	(F5JBR-J)
UM10	3326	11-3	1452	Mon	10-minutes net i.p.: U34D	CW	(JPL-J)
UM10	3210	11-3	1816	Mon	10-minutes net i.p.: 7CJK	CW	(JPL-J)
UM10	3326	15-3	1728	Fri	10-minutes bet: U34D	CW	(JPL-Sib)
V07	15893	3-3	0100	Sun	868 868 868 1 562 22 34337 96058 99103 ... 63997 18061 000 000	USB	(Dan/SDX)
V07	14693	3-3	0120	Sun	868 868 868 1 562 22 34337 96058 99103 ... 63997 18061 000 000	USB	(Dan/SDX)
V07	13893	3-3	0140	Sun	868 868 868 1 562 22 34337 96058 99103 ... 63997 18061 000 000	USB	(Dan/SDX)
V07	15893	10-3	0100	Sun	868 868 868 1 9963 102 24268 58959 88954 84690 51752 000 000	USB	(Dan)
V07	14693	10-3	0120	Sun	868 868 868 1 9963 102 24268 58959 88954 84690 51752 000 000	USB	(Dan)
V07	13893	10-3	0140	Sun	868 868 868 1 9963 102 24268 58959 88954 84690 51752 000 000	USB	(Dan)
V07	15893	17-3	0100	Sun	868 868 868 1 6628 100 6628 100 91327 67802 07784 ... 55307 44086 91195 000 000	USB	(Dan)
V07	14693	17-3	0120	Sun	868 868 868 1 6628 100 6628 100 91327 67802 07784 ... 55307 44086 91195 000 000	USB	(Dan)
V07	13893	17-3	0140	Sun	868 868 868 1 6628 100 6628 100 91327 67802 07784 ... 55307 44086 91195 000 000	USB	(Dan)
V07	15893	24-3	0100	Sun	868 868 868 1 9786 92 9786 92 29750 83164 08042 ... 11627 15610 88744 000 000	USB	(Dan/HFD-USA)
V07	14693	24-3	0120	Sun	868 868 868 1 9786 92 9786 92 29750 83164 08042 ... 11627 15610 88744 000 000	USB	(Dan/W9SPY/HFD-USA)
V07	13893	24-3	0140	Sun	868 868 868 1 9786 92 9786 92 29750 83164 08042 ... 11627 15610 88744 000 000	USB	(Dan/W9SPY/HFD-USA)
V07	15893	31-3	0100	Sun	868 868 868 1 480 100 91162 15075 45716 ... 34736 85752 21307 000 000	USB	(Dan)
V07	14693	31-3	0120	Sun	868 868 868 1 480 100 91162 15075 45716 ... 34736 85752 21307 000 000	USB	(Dan)
V07	13893	31-3	0140	Sun	868 868 868 1 480 100 91162 15075 45716 ... 34736 85752 21307 000 000	USB	(Dan)
V13	11430	16-3	0610	Sat	New Star Broadcasting	AM	(Sha)
V13	8169	27-3	1435	Wed	New Star Broadcasting	AM	(SDX)
V15	3320	9-3	1444	Sat	North Korean Intelligence via PBS Pyongyang Pansong. Music followed by a message in Korean	AM	(SDX)
V15	657	23-3	1445	Sat	North Korean Intelligence via PBS Pyongyang Pansong. Music followed by a message in Korean //3320 kHz	AM	(AB-J/BW3-J)
V15	3320	23-3	1445	Sat	North Korean Intelligence via PBS Pyongyang Pansong. Music followed by a message in Korean //657 kHz	AM	(AB-J/SDX/BW3-J)
V24	5115	11-3	1600	Mon	K-pop intro music, followed by a message in Korean	AM	(Token)
V24	5115	13-3	1600	Wed	K-pop intro music, followed by a message in Korean	AM	(Token)
V24	5900	15-3	1600	Fri	K-popsong followed by a message in Korean	AM	(SDX)

V24	5115	16-3	1600	Sat	K-popsong Amazing You followed by a message in Korean	AM	(AB-J/SDX)
V24	5715	19-3	1500	Tue	K-popsong followed by a message in Korean	AM	(AB-J)
V24	4900	23-3	1530	Sat	K-popsong followed by a message in Korean	USB	(AB/BW3)
V24	4900	27-3	1530	Wed	K-popsong followed by a message in Korean	AM	(AB)
V26	4243	3-3	1151	Sun	Switched to V26 - SSB - Chinese - Female	USB	(JPL)
V26	4243	5-3	1225	Tue	Messages in Chinese. Female operator	USB	(JPL)
V26	4364	8-3	1130	Fri	Callup in Chinese. Male operator //8073	USB	(JPL)
V26	8073	8-3	1130	Fri	Callup in Chinese. Male operator //4364	USB	(JPL)
V26	4243	8-3	1142	Fri	Messages in Chinese. Female operator	USB	(JPL)
V26	4243	11-3	1200	Mon	Messages in Chinese. Female operator	USB	(JPL)
V26	4364	12-3	0001	Tue	Callup in Chinese. Male operator	USB	(JPL)
V28	2938	4-3	0902	Mon	Parrot. Messages in Korean	AM	(HK)
V28	2997	4-3	0902	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3047	4-3	0902	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3544.5	4-3	0902	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3050	6-3	0900	Wed	Parrot. Messages in Korean.	AM	(HK)
V28	3518	6-3	0900	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	2929	6-3	0904	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4494	11-3	2138	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4495	11-3	2138	Mon	Parrot. Messages in Korean. Secret Code: Seongaksan. Ends with Aengmusae (Parrot)	AM	(HK)
V28	4494	15-3	2105	Fri	Parrot. Messages in Korean	AM	(HK)
V28	4626	15-3	2105	Fri	Parrot. Messages in Korean	AM	(HK)
V28	4962	15-3	2105	Fri	Parrot. Messages in Korean	AM	(HK)
V28	5160	15-3	2105	Fri	Parrot. Messages in Korean	AM	(HK)
V28	4492	18-3	2108	Mon	Parrot. Messages in Korean	AM	(HK)
V28	4623	18-3	2108	Mon	Parrot. Messages in Korean	AM	(HK)
V28	4975	18-3	2108	Mon	Parrot. Messages in Korean	AM	(HK)
V28	5140	18-3	2108	Mon	Parrot. Messages in Korean	AM	(HK)
V28	4494	19-3	2100	Tue	Parrot. Messages in Korean	AM	(HK)
V28	4625	19-3	2100	Tue	Parrot. Messages in Korean	AM	(HK)
V28	4962	19-3	2100	Tue	Parrot. Messages in Korean ??, heavy QRM from OTHR	AM	(HK)
V28	5152	19-3	2104	Tue	Parrot. Messages in Korean	AM	(HK)
V28	2996	21-3	0900	Thu	Parrot. Messages in Korean	AM	(HK)
V28	3048	21-3	0902	Thu	Parrot. Messages in Korean	AM	(HK)
V28	3315	21-3	0903	Thu	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	2994.5	21-3	0905	Thu	Parrot. Messages in Korean	AM	(HK)
V28	4494	25-3	2105	Mon	Parrot. Messages in Korean	AM	(HK)
V28	4971	25-3	2105	Mon	Parrot. Messages in Korean	AM	(HK)
V28	2996	25-3	2109	Mon	Parrot. Messages in Korean	AM	(HK)
V28	2997	29-3	2105	Fri	Parrot. Messages in Korean	AM	(HK)

V28	3048	29-3	2105	Fri	Parrot. Messages in Korean. Bad modulation	AM	(HK)
V28	4494	29-3	2105	Fri	Parrot. Messages in Korean	AM	(HK)
VC01	3069	16-3	1441	Sat	Chinese Robot i.p.	USB	(AB)
VC01	3069	18-3	1359	Mon	Chinese Robot i.p.	USB	(AB-J)
VC01	7644	18-3	1359	Mon	Chinese Robot i.p. Much slower than 3069 kHz	LSB	(AB-J)
VC01	3969	25-3	1535	Mon	Chinese Robot i.p.	USB	(BW3-J)
VC01	6619	30-3	0738	Sat	Chinese Robot i.p.	USB	(AB-J)
X06	13465	6-3	0920	Wed	MFA Moscow clg 362154: Russian embassy Athens	MFSK-6	(ES)
X06	11424	25-3	0905	Mon	MFA Moscow clg 421635: Russian embassy Oslo	MFSK-6	(ES-HOL)
X06	11483	27-3	0831	Wed	MFA Moscow clg 412356: Russian embassy Budapest	MFSK-6	(DK8OK)
X06	13419	27-3	0912	Wed	MFA Moscow clg 255663	MFSK-6	(DK8OK)
X06	11561	28-3	1539	Thu	MFA Moscow clg 263145: Russian embassy Prague	MFSK-6	(ES-HOL)
X06a	7651	6-3	1933	Wed	Sequence: 161616 before E07	MFSK-6	(AB)
X06b	16138	3-3	1432	Sun	Sequence: 111666 before XPA2	MFSK-6	(AB)
X06b	16138	10-3	1425	Sun	Sequence 111666 before XPA2	MFSK-6	(Dan)
X06b	16138	31-3	1455	Sun	Mazielka. Sequence: 111666 before XPA2	MFSK-6	(AB/Dan)
XPA	8084	2-3	1300	Sat	687 687 687 1 00967 00052 54612 ... 86243 92098 46327	MFSK-20/10Bd	(AB)
XPA	6927	2-3	1320	Sat	687 687 687 1 00967 00052 54612 ... 86243 92098 46327	MFSK-20/10Bd	(AB)
XPA	12132	5-3	0810	Tue	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB)
XPA	13453	5-3	0830	Tue	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB)
XPA	14576	5-3	0850	Tue	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB)
XPA	12132	7-3	0810	Thu	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB/HFD)
XPA	13453	7-3	0830	Thu	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB/HFD)
XPA	14576	7-3	0850	Thu	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB/HFD)
XPA	12132	12-3	0810	Tue	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB)
XPA	13453	12-3	0830	Tue	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB)
XPA	14576	12-3	0850	Tue	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB)
XPA	12132	14-3	0810	Thu	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB)
XPA	13453	14-3	0830	Thu	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB)
XPA	14576	14-3	0850	Thu	973 973 973 1 00318 00045 02729 ... 03432 84478 47366	MFSK-20/10Bd	(AB)
XPA	12132	19-3	0810	Tue	973 973 973 000 06053 00001 00000 32663	MFSK-20/10Bd	(AB)
XPA	13453	19-3	0830	Tue	973 973 973 000 06053 00001 00000 32663	MFSK-20/10Bd	(AB)
XPA	14576	19-3	0850	Tue	973 973 973 000 06053 00001 00000 32663	MFSK-20/10Bd	(AB)
XPA	12132	21-3	0810	Thu	973 973 973 000 02693 00001 00000 35663	MFSK-20/10Bd	(AB)
XPA	13453	21-3	0830	Thu	973 973 973 000 02693 00001 00000 35663	MFSK-20/10Bd	(AB)
XPA	14576	21-3	0850	Thu	973 973 973 000 02693 00001 00000 35663	MFSK-20/10Bd	(AB)
XPA	12132	26-3	0810	Tue	973 973 973 1 00239 00200 53279 ... 34617 58880 26007	MFSK-20/10Bd	(AB)
XPA	13453	26-3	0830	Tue	973 973 973 1 00239 00200 53279 ... 34617 58880 26007	MFSK-20/10Bd	(AB)
XPA	14576	26-3	0850	Tue	973 973 973 1 00239 00200 53279 ... 34617 58880 26007	MFSK-20/10Bd	(AB)
XPA	12132	28-3	0810	Thu	973 973 973 1 00239 00200 53279 ... 34617 58880 26007	MFSK-20/10Bd	(AB)

XPA	13453	28-3	0830	Thu	973 973 973 1 00239 00200 53279 ... 34617 58880 26007	MFSK-20/10Bd	(AB)
XPA	14576	28-3	0850	Thu	973 973 973 1 00239 00200 53279 ... 34617 58880 26007	MFSK-20/10Bd	(AB)
XPA2	18667	1-3	1400	Fri	00179 00030 05602 ... 31449 63319 03162	MFSK-16/20Bd	(AB-RUS/RL)
XPA2	17419	1-3	1420	Fri	00179 00030 05602 ... 31449 63319 03162	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	16212	1-3	1440	Fri	00179 00030 05602 ... 31449 63319 03162	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	16261	2-3	0910	Sat	03268 00077 52871 ... 26300 86850 30212	MFSK-16/20Bd	(AB)
XPA2	15961	2-3	0930	Sat	03268 00077 52871 ... 26300 86850 30212	MFSK-16/20Bd	(Danix)
XPA2	14861	2-3	0950	Sat	03268 00077 52871 ... 26300 86850 30212	MFSK-16/20Bd	(AB)
XPA2	18667	2-3	1400	Sat	00179 00030 05602 ... 31449 63319 03162	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	17419	2-3	1420	Sat	00179 00030 05602 ... 31449 63319 03162	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	16212	2-3	1440	Sat	00179 00030 05602 ... 31449 63319 03162	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	16138	3-3	1500	Sun	09778 00001 00000 40670	MFSK16/20Bd	(AB-RUS/MPJ/RL)
XPA2	14438	3-3	1520	Sun	09778 00001 00000 40670	MFSK16/20Bd	(AB/MPJ)
XPA2	13438	3-3	1540	Sun	09778 00001 00000 40670	MFSK16/20Bd	(AB/MPJ)
XPA2	12192	4-3	0800	Mon	02782 00001 00000 35662	MFSK-16/20Bd	(AB/MPJ)
XPA2	13892	4-3	0820	Mon	02782 00001 00000 35662	MFSK-16/20Bd	(AB/MPJ)
XPA2	14892	4-3	0840	Mon	02782 00001 00000 35662	MFSK-16/20Bd	(AB/MPJ)
XPA2	12163	4-3	1600	Mon	02684 00001 00000 36262	MFSK-16/20Bd	(AB/MPJ)
XPA2	10863	4-3	1620	Mon	02684 00001 00000 36262	MFSK-16/20Bd	(AB/MPJ)
XPA2	9363	4-3	1640	Mon	02684 00001 00000 36262	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	5-3	1500	Tue	04693 00001 00000 35665	MFSK-16/20Bd	(AB-RUS/RL/MPJ/HFD)
XPA2	14438	5-3	1520	Tue	04693 00001 00000 35665	MFSK-16/20Bd	(AB/RL/MPJ/BW3-G/HFD)
XPA2	13438	5-3	1540	Tue	04693 00001 00000 35665	MFSK-16/20Bd	(AB/MPJ/BW3-G/HFD)
XPA2	12192	6-3	0800	Wed	09336 00001 00000 35664	MFSK-16/20Bd	(AB)
XPA2	13892	6-3	0820	Wed	09336 00001 00000 35664	MFSK-16/20Bd	(AB)
XPA2	14892	6-3	0840	Wed	09336 00001 00000 35664	MFSK-16/20Bd	(AB)
XPA2	16345	6-3	0930	Wed	00162 00022 80271 ... 65457 45402 51061	MFSK-16/20Bd	(AB)
XPA2	14838	6-3	0950	Wed	00162 00022 80271 ... 65457 45402 51061	MFSK-16/20Bd	(AB)
XPA2	16261	7-3	0910	Thu	07769 00001 01000 40774	MFSK-16/20Bd	(AB/HFD)
XPA2	15961	7-3	0930	Thu	07769 00001 01000 40774	MFSK-16/20Bd	(AB/HFD)
XPA2	14861	7-3	0950	Thu	07769 00001 01000 40774	MFSK-16/20Bd	(AB/RL/HFD)
XPA2	13994	7-3	1600	Thu	08833 00038 84266 13388 60241 ... 70222 62370 80448 52877 07255	MFSK-16/20Bd	(AB/MPJ)
XPA2	13494	7-3	1620	Thu	08833 00038 84266 13388 60241 ... 70222 62370 80448 52877 07255	MFSK-16/20Bd	(MPJ)
XPA2	12194	7-3	1640	Thu	08833 00038 84266 13388 60241 ... 70222 62370 80448 52877 07255	MFSK-16/20Bd	(MPJ)
XPA2	18667	8-3	1400	Fri	00503 00092 72641 10962 78710 ... 11354 76376 84016 74267 51537	MFSK-16/20Bd	(MPJ)
XPA2	17419	8-3	1420	Fri	00503 00092 72641 10962 78710 ... 11354 76376 84016 74267 51537	MFSK-16/20Bd	(MPJ/RL)
XPA2	16212	8-3	1440	Fri	00503 00092 72641 10962 78710 ... 11354 76376 84016 74267 51537	MFSK-16/20Bd	(MPJ)
XPA2	16261	9-3	0910	Sat	83557 00001 00000 36265	MFSK-16/20Bd	(AB)
XPA2	15961	9-3	0930	Sat	83557 00001 00000 36265	MFSK-16/20Bd	(AB)

XPA2	14861	9-3	0950	Sat	83557 00001 00000 36265	MFSK-16/20Bd	(AB)
XPA2	18667	9-3	1400	Sat	00503 00092 72641 ... 84016 74267 51537	MFSK-16/20Bd	(AB-RUS/RL/MPJ)
XPA2	17419	9-3	1420	Sat	00503 00092 72641 ... 84016 74267 51537	MFSK-16/20Bd	(AB-RUS/RL/MPJ)
XPA2	16212	9-3	1440	Sat	00503 00092 72641 ... 84016 74267 51537	MFSK-16/20Bd	(AB-RUS/RL/MPJ/BW3-D)
XPA2	12163	9-3	1600	Sat	02252 00001 00000 33257	MFSK-16/20Bd	(AB/MPJ)
XPA2	10863	9-3	1620	Sat	02252 00001 00000 33257	MFSK-16/20Bd	(AB/MPJ)
XPA2	9363	9-3	1640	Sat	02252 00001 00000 33257	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	10-3	1500	Sun	09287 00001 00000 35671	MFSK16/20Bd	(AB/Dan/MPJ)
XPA2	14438	10-3	1520	Sun	09287 00001 00000 35671	MFSK16/20Bd	(AB/Dan/MPJ)
XPA2	13438	10-3	1540	Sun	09287 00001 00000 35671	MFSK16/20Bd	(AB/Dan/MPJ)
XPA2	12192	11-3	0800	Mon	04068 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	13892	11-3	0820	Mon	04068 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	14892	11-3	0840	Mon	04068 00001 00000 35262	MFSK-16/20Bd	(AB)
XPA2	18333	11-3	0910	Mon	01117 00001 00000 35252	MFSK-16/20Bd	(AB-RUS)
XPA2	16345	11-3	0930	Mon	01117 00001 00000 35252	MFSK-16/20Bd	(AB-RUS)
XPA2	14838	11-3	0950	Mon	01117 00001 00000 35252	MFSK-16/20Bd	(AB)
XPA2	12163	11-3	1600	Mon	00536 00164 81987 ... 80055 00147 33066	MFSK-16/20Bd	(AB/MPJ)
XPA2	10863	11-3	1620	Mon	00536 00164 81987 ... 80055 00147 33066	MFSK-16/20Bd	(AB/MPJ)
XPA2	9363	11-3	1640	Mon	00536 00164 81987 ... 80055 00147 33066	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	12-3	1500	Tue	02679 00001 00000 40661	MFSK-16/20Bd	(AB-RUS/GHn/BW3/MPJ)
XPA2	14438	12-3	1520	Tue	02679 00001 00000 40661	MFSK-16/20Bd	(AB-RUS/BW3/MPJ)
XPA2	13438	12-3	1540	Tue	02679 00001 00000 40661	MFSK-16/20Bd	(AB/BW3/MPJ)
XPA2	13994	12-3	1600	Tue	02247 00001 00000 33656	MFSK-16/20Bd	(AB/BW3/MPJ)
XPA2	13494	12-3	1620	Tue	02247 00001 00000 33656	MFSK-16/20Bd	(AB/BW3/MPJ)
XPA2	12194	12-3	1640	Tue	02247 00001 00000 33656	MFSK-16/20Bd	(AB/BW3/MPJ)
XPA2	12192	13-3	0800	Wed	08197 00001 00000 35271	MFSK-16/20Bd	(AB)
XPA2	13892	13-3	0820	Wed	08197 00001 00000 35271	MFSK-16/20Bd	(AB)
XPA2	14892	13-3	0840	Wed	08197 00001 00000 35271	MFSK-16/20Bd	(AB)
XPA2	18333	13-3	0910	Wed	02371 00001 00000 33261	MFSK-16/20Bd	(AB)
XPA2	16345	13-3	0930	Wed	02371 00001 00000 33261	MFSK-16/20Bd	(AB)
XPA2	14838	13-3	0950	Wed	02371 00001 00000 33261	MFSK-16/20Bd	(AB)
XPA2	16261	14-3	0910	Thu	07978 00001 00000 41666	MFSK-16/20Bd	(AB)
XPA2	15961	14-3	0930	Thu	07978 00001 00000 41666	MFSK-16/20Bd	(AB)
XPA2	14861	14-3	0950	Thu	07978 00001 00000 41666	MFSK-16/20Bd	(AB)
XPA2	13994	14-3	1600	Thu	08590 00000 00000 33671	MFSK-16/20Bd	(AB/MPJ)
XPA2	13494	14-3	1620	Thu	08590 00000 00000 33671	MFSK-16/20Bd	(AB/MPJ)
XPA2	12194	14-3	1640	Thu	08590 00000 00000 33671	MFSK-16/20Bd	(AB/MPJ)
XPA2	18667	15-3	1400	Fri	04862 00092 70004 82246 ... 20925 48776 35134	MFSK-16/20Bd	(AB-RUS)
XPA2	17419	15-3	1420	Fri	04862 00092 70004 82246 ... 20925 48776 35134	MFSK-16/20Bd	(AB-RUS/MPJ/RL)

XPA2	16212	15-3	1440	Fri	04862 00092 70004 82246 ... 20925 48776 35134	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	16261	16-3	0910	Sat	04551 00001 00000 34261	MFSK-16/20Bd	(AB)
XPA2	15961	16-3	0930	Sat	04551 00001 00000 34261	MFSK-16/20Bd	(AB)
XPA2	14861	16-3	0950	Sat	04551 00001 00000 34261	MFSK-16/20Bd	(AB)
XPA2	18667	16-3	1400	Sat	04862 00092 70004 82246 ... 20925 48776 35134	MFSK-16/20Bd	(AB-RUS/MPJ/HFD)
XPA2	17419	16-3	1420	Sat	04862 00092 70004 82246 ... 20925 48776 35134	MFSK-16/20Bd	(AB-RUS/MPJ/HFD)
XPA2	16212	16-3	1440	Sat	04862 00092 70004 82246 ... 20925 48776 35134	MFSK-16/20Bd	(AB-RUS/MPJ/HFD)
XPA2	12163	16-3	1600	Sat	00536 00164 81987 ... 80055 00147 33066	MFSK-16/20Bd	(AB/MPJ)
XPA2	10863	16-3	1620	Sat	00536 00164 81987 ... 80055 00147 33066	MFSK-16/20Bd	(AB/MPJ)
XPA2	9363	16-3	1640	Sat	00536 00164 81987 ... 80055 00147 33066	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	17-3	1500	Sun	03822 00082 69682 ... 48938 58653 04451	MFSK16/20Bd	(AB/MPJ)
XPA2	14438	17-3	1520	Sun	03822 00082 69682 ... 48938 58653 04451	MFSK16/20Bd	(AB/MPJ)
XPA2	13438	17-3	1540	Sun	03822 00082 69682 ... 48938 58653 04451	MFSK16/20Bd	(AB/MPJ)
XPA2	12192	18-3	0800	Mon	02036 00001 00000 34255	MFSK-16/20Bd	(AB)
XPA2	13892	18-3	0820	Mon	02036 00001 00000 34255	MFSK-16/20Bd	(AB)
XPA2	14892	18-3	0840	Mon	02036 00001 00000 34255	MFSK-16/20Bd	(AB)
XPA2	18333	18-3	0910	Mon	00119 00280 23269 ... 72798 63474 00725	MFSK-16/20Bd	(AB-RUS)
XPA2	16345	18-3	0930	Mon	00119 00280 23269 ... 72798 63474 00725	MFSK-16/20Bd	(AB)
XPA2	14838	18-3	0950	Mon	00119 00280 23269 ... 72798 63474 00725	MFSK-16/20Bd	(AB)
XPA2	12163	18-3	1600	Mon	07036 00001 00000 34262	MFSK-16/20Bd	(AB/MPJ)
XPA2	10863	18-3	1620	Mon	07036 00001 00000 34262	MFSK-16/20Bd	(AB/MPJ)
XPA2	9363	18-3	1640	Mon	07036 00001 00000 34262	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	19-3	1500	Tue	03822 00082 69682 ... 48938 58653 04451	MFSK16/20Bd	(AB-RUS/MPJ)
XPA2	14438	19-3	1520	Tue	03822 00082 69682 ... 48938 58653 04451	MFSK16/20Bd	(AB-RUS/MPJ)
XPA2	13438	19-3	1540	Tue	03822 00082 69682 ... 48938 58653 04451	MFSK16/20Bd	(AB-RUS/MPJ/BW3-FIN)
XPA2	13994	19-3	1600	Tue	09561 00001 00000 34267	MFSK-16/20Bd	(AB/MPJ)
XPA2	13494	19-3	1620	Tue	09561 00001 00000 34267	MFSK-16/20Bd	(AB/MPJ)
XPA2	12194	19-3	1640	Tue	09561 00001 00000 34267	MFSK-16/20Bd	(AB/MPJ)
XPA2	12192	20-3	0800	Wed	05608 00001 00000 40255	MFSK-16/20Bd	(AB)
XPA2	13892	20-3	0820	Wed	05608 00001 00000 40255	MFSK-16/20Bd	(AB)
XPA2	14892	20-3	0840	Wed	05608 00001 00000 40255	MFSK-16/20Bd	(AB)
XPA2	18333	20-3	0910	Wed	00119 00280 23269 ... 72798 63474 00725	MFSK-16/20Bd	(AB-RUS)
XPA2	16345	20-3	0930	Wed	00119 00280 23269 ... 72798 63474 00725	MFSK-16/20Bd	(AB)
XPA2	14838	20-3	0950	Wed	00119 00280 23269 ... 72798 63474 00725	MFSK-16/20Bd	(AB)
XPA2	16261	21-3	0910	Thu	00906 00072 37992 ... 04294 24178 71421	MFSK-16/20Bd	(AB)
XPA2	15961	21-3	0930	Thu	00906 00072 37992 ... 04294 24178 71421	MFSK-16/20Bd	(AB)
XPA2	14861	21-3	0950	Thu	00906 00072 37992 ... 04294 24178 71421	MFSK-16/20Bd	(AB)
XPA2	13994	21-3	1600	Thu	05310 00001 00000 32656	MFSK-16/20Bd	(AB/MPJ)
XPA2	13494	21-3	1620	Thu	05310 00001 00000 32656	MFSK-16/20Bd	(AB/MPJ)
XPA2	12194	21-3	1640	Thu	05310 00001 00000 32656	MFSK-16/20Bd	(AB/MPJ)

XPA2	18667	22-3	1400	Fri	00665 00082 14101 ... 11456 61814 26476	MFSK-16/20Bd	(AB/GHn/MPJ)
XPA2	17419	22-3	1420	Fri	00665 00082 14101 ... 11456 61814 26476	MFSK-16/20Bd	(AB/MPJ)
XPA2	16212	22-3	1440	Fri	00665 00082 14101 ... 11456 61814 26476	MFSK-16/20Bd	(AB/MPJ/RL)
XPA2	16261	23-3	0910	Sat	00906 00072 37992 ... 04294 24178 71421	MFSK-16/20Bd	(AB)
XPA2	15961	23-3	0930	Sat	00906 00072 37992 ... 04294 24178 71421	MFSK-16/20Bd	(AB)
XPA2	14861	23-3	0950	Sat	00906 00072 37992 ... 04294 24178 71421	MFSK-16/20Bd	(AB)
XPA2	18667	23-3	1400	Sat	00665 00082 14101 ... 11456 61814 26476	MFSK-16/20Bd	(AB/MPJ)
XPA2	17419	23-3	1420	Sat	00665 00082 14101 ... 11456 61814 26476	MFSK-16/20Bd	(AB/MPJ)
XPA2	16212	23-3	1440	Sat	00665 00082 14101 ... 11456 61814 26476	MFSK-16/20Bd	(AB/GHn/MPJ)
XPA2	12163	23-3	1600	Sat	05434 00001 00000 35260	MFSK-16/20Bd	(AB/BW3-HOL/MPJ)
XPA2	10863	23-3	1620	Sat	05434 00001 00000 35260	MFSK-16/20Bd	(AB/MPJ)
XPA2	9363	23-3	1640	Sat	05434 00001 00000 35260	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	24-3	1500	Sun	00344 00102 32673 ... 33899 96999 25065	MFSK16/20Bd	(AB/GHn/MPJ/MDK2)
XPA2	14438	24-3	1520	Sun	00344 00102 32673 ... 33899 96999 25065	MFSK16/20Bd	(AB/MPJ/MDK2)
XPA2	13438	24-3	1540	Sun	00344 00102 32673 ... 33899 96999 25065	MFSK16/20Bd	(AB/MPJ)
XPA2	12192	25-3	0800	Mon	04314 00001 00000 34655	MFSK-16/20Bd	(AB)
XPA2	13892	25-3	0820	Mon	04314 00001 00000 34655	MFSK-16/20Bd	(AB)
XPA2	14892	25-3	0840	Mon	04314 00001 00000 34655	MFSK-16/20Bd	(AB)
XPA2	18333	25-3	0910	Mon	04126 00001 00000 34256	MFSK-16/20Bd	(AB-RUS)
XPA2	16345	25-3	0930	Mon	04126 00001 00000 34256	MFSK-16/20Bd	(AB)
XPA2	14838	25-3	0950	Mon	04126 00001 00000 34256	MFSK-16/20Bd	(AB)
XPA2	12163	25-3	1600	Mon	06740 00001 00000 34662	MFSK-16/20Bd	(AB/MPJ/BW3)
XPA2	10863	25-3	1620	Mon	06740 00001 00000 34662	MFSK-16/20Bd	(AB/MPJ)
XPA2	9363	25-3	1640	Mon	06740 00001 00000 34662	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	26-3	1500	Tue	00344 00102 32673 ... 33899 96999 25065	MFSK16/20Bd	(AB-RUS/RL/MPJ)
XPA2	14438	26-3	1520	Tue	00344 00102 32673 ... 33899 96999 25065	MFSK16/20Bd	(AB/GHn/RL/BW3-POL/MPJ)
XPA2	13438	26-3	1540	Tue	00344 00102 32673 ... 33899 96999 25065	MFSK16/20Bd	(AB/RL/MPJ)
XPA2	13994	26-3	1600	Tue	07362 00203 71027 84954 67506 ...	MFSK-16/20Bd	(MPJ)
XPA2	13494	26-3	1620	Tue	07362 00203 71027 84954 67506 ...	MFSK-16/20Bd	(MPJ)
XPA2	12194	26-3	1640	Tue	07362 00203 71027 84954 67506 ...	MFSK-16/20Bd	(MPJ)
XPA2	12192	27-3	0800	Wed	07722 00001 00000 35660	MFSK-16/20Bd	(AB)
XPA2	13892	27-3	0820	Wed	07722 00001 00000 35660	MFSK-16/20Bd	(AB)
XPA2	14892	27-3	0840	Wed	07722 00001 00000 35660	MFSK-16/20Bd	(AB)
XPA2	18333	27-3	0910	Wed	02061 00001 00000 31660	MFSK-16/20Bd	(AB-RUS)
XPA2	16345	27-3	0930	Wed	02061 00001 00000 31660	MFSK-16/20Bd	(AB)
XPA2	14838	27-3	0950	Wed	02061 00001 00000 31660	MFSK-16/20Bd	(AB)
XPA2	16261	28-3	0910	Thu	02127 00001 00000 35254	MFSK-16/20Bd	(AB)
XPA2	15961	28-3	0930	Thu	02127 00001 00000 35254	MFSK-16/20Bd	(AB)
XPA2	14861	28-3	0950	Thu	02127 00001 00000 35254	MFSK-16/20Bd	(AB)

XPA2	13994	28-3	1600	Thu	07352 00203 71027 ... 27774 08898 76102	MFSK-16/20Bd	(AB/MPJ)
XPA2	13494	28-3	1620	Thu	07352 00203 71027 ... 27774 08898 76102	MFSK-16/20Bd	(AB/MPJ)
XPA2	12194	28-3	1640	Thu	07352 00203 71027 ... 27774 08898 76102	MFSK-16/20Bd	(AB/MPJ)
XPA2	18667	29-3	1400	Fri	02475 00104 58566 ... 65812 18098 14013	MFSK-16/20Bd	(AB-RUS/MPJ/RL)
XPA2	17419	29-3	1420	Fri	02475 00104 58566 ... 65812 18098 14013	MFSK-16/20Bd	(AB-RUS/MPJ/RL)
XPA2	16212	29-3	1440	Fri	02475 00104 58566 ... 65812 18098 14013	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	16261	30-3	0910	Sat	06731 00001 00000 35261	MFSK-16/20Bd	(AB)
XPA2	15961	30-3	0930	Sat	06731 00001 00000 35261	MFSK-16/20Bd	(AB)
XPA2	14861	30-3	0950	Sat	06731 00001 00000 35261	MFSK-16/20Bd	(AB)
XPA2	18667	30-3	1400	Sat	02475 00104 58566 ... 65812 18098 14013	MFSK-16/20Bd	(AB-RUS/MPJ/RL)
XPA2	17419	30-3	1420	Sat	02475 00104 58566 ... 65812 18098 14013	MFSK-16/20Bd	(AB-RUS/MPJ)
XPA2	16212	30-3	1440	Sat	02475 00104 58566 ... 65812 18098 14013	MFSK-16/20Bd	(AB-RUS/GHn/MPJ)
XPA2	12163	30-3	1600	Sat	05978 00001 00000 41664	MFSK-16/20Bd	(AB/MPJ)
XPA2	10863	30-3	1620	Sat	05978 00001 00000 41664	MFSK-16/20Bd	(AB/MPJ)
XPA2	9363	30-3	1640	Sat	05978 00001 00000 41664	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	31-3	1500	Sun	04851 00102 56967 ... 43628 17350 52042	MFSK16/20Bd	(AB/Dan/MPJ)
XPA2	14438	31-3	1520	Sun	04851 00102 56967 ... 43628 17350 52042	MFSK16/20Bd	(AB/Dan/MPJ)
XPA2	13438	31-3	1540	Sun	04851 00102 56967 ... 43628 17350 52042	MFSK16/20Bd	(AB/Dan/MPJ)
XSL	4153	16-3	1448	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4231.5	16-3	1448	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4291	16-3	1448	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6250	16-3	1448	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6417	16-3	1448	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6445	16-3	1448	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8313	16-3	1448	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8588	16-3	1448	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8703.5	16-3	1448	Sat	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4153	18-3	1407	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4231.5	18-3	1407	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	4291	18-3	1407	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6250	18-3	1407	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6417	18-3	1407	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	6445	18-3	1407	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8313	18-3	1407	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8588	18-3	1407	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
XSL	8703.5	18-3	1407	Mon	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)

CONTRIBUTORS

AB	Ary Boender, Netherlands	F5JBR	F5JBR André, France
AB-AUT	Ary Boender via remote rx Austria	F5JBR-J	F5JBR André via remote rx Japan
AB-FIN	Ary Boender via remote rx Finland	GHn	Gary Hagermann, UK
AB-G	Ary Boender via remote rx UK	Gwr	Gwraspe (via Priyom)
AB-GRC	Ary Boender via remote rx Greece	HFD	Hans-Friedrich Dumrese, Germany
AB-I	Ary Boender via remote rx Italy	HFD-KOR	Hans-Friedrich Dumrese via remote rx S. Korea
AB-J	Ary Boender via remote rx Japan	HFD-RUS	Hans-Friedrich Dumrese via remote rx Russia
AB-NZL	Ary Boender via remote rx New Zealand	HFD-UKR	Hans-Friedrich Dumrese via remote rx Ukraine
AB-POL	Ary Boender via remote rx Poland	HFD-USA	Hans-Friedrich Dumrese via remote rx USA
AB-QAT	Ary Boender via remote rx Qatar	HK	Hiroyuki Komatsubara, Japan
AB-RUS	Ary Boender via remote rx Russia	JPL	JPL, NB, Canada (and various remote rx)
AB-S	Ary Boender via remote rx Sweden	JPL-CHN	JPL via remote rx China
AB-Sib	Ary Boender via remote rx Siberia	JPL-HK	JPL via remote rx Hong Kong
Avare	Avare, Russia	JPL-J	JPL via remote rx Japan
Avare-GRC	Avare via remote rx Greece	JPL-KOR	JPL via remote rx South Korea
AVX	AlphaVax, Germany	JPL-Sib	JPL via remote rx Siberia
BR	Brian Rogers, UK	JU	Jay Updike, W. Europe
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BW3-D	Barry Williams via remote rx Germany	Kalv-KOR	Kalvados via remote rx South Korea
BW3-FIN	Barry Williams via remote rx Finland	MDK2	MDK2, USA
BW3-G	Barry Williams via remote rx UK	MPJ	Jim, SW England
BW3-HOL	Barry Williams via remote rx Netherlands	MPJ-AUT	Jim via remote rx Austria
BW3-J	Barry Williams via remote rx Japan	MPJ-CZE	Jim via remote rx Czech Rep.
BW3-POL	Barry Williams via remote rx Poland	MPJ-I	Jim via remote rx Italy
BW3-RUS	Barry Williams via remote rx Russia	MPJ-RUS	Jim via remote rx Russia
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ES-HOL	Edward Smith via remote rx Netherlands	W9SPY	Curt
ES-POL	Edward Smith via remote rx Poland	WP3	Wolfgang Palmberger
ES-RUS	Edward Smith via remote rx Russia		

APPENDIX

F01 Analysis by Alpha. The message were mentioned in N&O 254.

Note from Alpha:

Here you can see that the colored areas are the same. So no OTP usage can be assumed here!

So the theory of the 3rd group in the header must be adjusted appropriately. It can be some group for decoding, a so called "Kennggruppe", but not a OTP- start group anyway. Also interesting, that the messages are belonging to 2 different links : 00116 and 00117 sent from Cuba.

Note from Ary:

I still think that the 3rd group is related to the key. It is however not logical that a specific key is mentioned there, certainly not an OTP. The colored parts show that the last part of the first message is the same as the first part of the second one, and the last part of the second message is the same as the first part of the third message. The last tow groups are not part of the message. They represent the message number and the number of groups in the message and 00000 means end of message.

20741 kHz, 02-11, 2230/2330 UTC

18702 kHz, 02-11, 2240/2340 UTC

11177 00116 65148 02048 02079

80310 36732 21533 82858 08693 37437 13964 20295 74649 12318
13892 45100 13300 02224 79854 78600 64375 81093 02643 86708
19816 48501 59706 28950 27281 77979 88980 52024 37300 15800
04753 14201 30048 22024 58408 42542 75752 28660 09126 94828
27867 70945 42239 65743 94406 02284 31119 00025 76919 87651
14857 66914 36769 76090 76687 76653 76972 64075 40128 01520
71649 53511 00708 16414 98622 52327 39015 06979 28998 93636
04496 64198 04905 50160 28849 83449 17576 24255 05297 76812
03287 46380 49797 51378 09521 32733 23861 60919 15094 96824
65347 47140 48334 61554 66967 56430 02538 50566 73408 08153
51140 11857 85160 91249 01443 25132 60696 80867 54460 55391
50496 74309 66045 82868 53401 77808 97839 72502 48062 65663
41713 08290 10816 78821 38935 41227 79140 47876 80861 45259
38843 50593 46253 20009 80967 21448 49844 19680 93638 95017
19826 75939 97973 50419 41436 42276 18511 30644 75382 73537
48001 64583 12295 54631 20651 94468 10812 98868 20249 81564
68635 74240 27201 61949 96942 02368 92867 35359 59799 05210
20636 94840 84482 42779 93984 08059 09182 87684 89837 07196
30148 66661 78296 59437 82887 60491 22246 02398 68697 26889
88168 04844 29645 54705 76435 37328 30866 97193 71235 70260
73718 47689 63969 75605 27663 48205 00000

20741 kHz, 09-11, 2230/2330 UTC

18702 kHz, 09-11, 2240/2340 UTC

11177 00116 68139 08049 01149

50496 74309 66045 82868 53401 77808 97839 72502 48062 65663
41713 08290 10816 78821 38935 41227 79140 47876 80861 45259
38843 50593 46253 20009 80967 21448 49844 19680 93638 95017
19826 75939 97973 50419 41436 42276 18511 30644 75382 73537
48001 64583 12295 54631 20651 94468 10812 98868 20249 81564
68635 74240 27201 61949 96942 02368 92867 35359 59799 05210
20636 94840 84482 42779 93984 08059 09182 87684 89837 07196
30148 66661 78296 59437 82887 60491 22246 02398 68697 26889
88168 04844 29645 54705 76435 37328 30866 97193 71235 70260
73718 47689 63969 75605 27663 24360 43637 49429 38245 43224
74161 68704 96951 60222 27361 00723 10748 01873 47134 42464
98425 72744 49112 00000

12101 kHz, 05-11, 0025/0125 UTC / 9215 kHz, 05-11, 0035/0135 UTC

11177 00117 83407 02049 02439

24360 43637 49429 38245 43224 74161 68704 96951 60222 27361

00723 10748 01873 47134 42464 98425 72744 05600 40320 86992

35481 07249 92366 77469 60995 17308 54394 62386 27076 74312

47558 07737 79320 78207 14611 28871 01079 07693 36498 46997

80143 59438 55283 18270 52611 78867 74900 27162 04822 33272

45416 80488 35247 47565 76970 32380 52515 11589 33678 62510

00828 87015 08071 51339 48236 09070 20004 08119 93991 26479

32875 60469 68968 59870 78587 80528 57257 91739 69987 73652

84064 96659 62887 57022 91381 37614 92018 63420 59449 19934

12572 60141 53577 33207 47681 89372 70647 02916 38285 92034

77165 54681 05189 18109 73912 62665 05431 98776 87325 43575

65958 33199 61714 02580 16970 51329 99606 43054 14585 19967

90597 66818 92954 62767 17186 80786 69618 59661 75563 02598

23861 66134 09682 64230 50728 02354 30718 87422 12172 63608

87089 98426 87859 83647 15944 20000 81719 90934 73178 25312

12926 46969 94095 10723 32871 61912 14607 36522 43964 67462

99678 75267 47118 06660 90587 04660 06265 24142 01034 04062

27275 19006 20249 99503 70494 89008 22562 18130 77214 11363

86635 23726 56802 23248 23857 28877 35390 81655 22125 65889

93470 11018 75306 61828 54396 85185 29076 00732 70713 37639

69598 17538 07734 65558 93966 41507 66816 82537 35518 17682

47733 37789 64645 42097 75446 56514 95271 70061 02586 32031

92667 41314 91110 21257 35015 86719 02398 03157 77098 03148

90513 01992 00739 76493 38037 15122 13274 59649 04179 05566

10415 49241 00000

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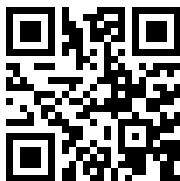
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478 27364 92836 89428 61288 13982 26498 32764 31276 81
986 88932 78987 32123 49817 26366 81287 65491 87364 81
721 75654 55656 12737 72727 72727 91918 63473 67867 76
423 87629 37677 32612 53498 71296 28756 18276 98716 87
7269 76329 74698 76857 98678 27681 56701 57601 73648 1
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